

1530

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<400> 2254

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acaattcact ggccgctcgtt ttacaacgtc gtgactggga aaaccaant n 111

<210> 2255

<211> 187

<212> DNA

<213> Homo sapiens

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1531

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ccccggggt gcaggaatcc ngcacgagcg ganacgagg ggggcccggt acccanttcg 120
ccctatagtg agtcgtntta caattcactg gncgtcgttt tacaacgtcg tgactgggaa 180
aacccan 187

<210> 2256
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1532

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<222> (120)
<223> n equals a,t,g, or c

<220>
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<222> (154)
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ggcgttcgct ctagaactag tggatccccc gggctgcagg aatccggnac gagcgnaann 120
agggggggcc cggttcccaa ttcggcctat attna 155

<210> 2257
<211> 125
<212> DNA
<213> Homo sapiens

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<220>

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tgcccgctgt ttacaacgt cttgactggg aaaacccaaa tnnntttctn tgttnttctn 120
ttncc 125

<210> 2258
<211> 112
<212> DNA
<213> Homo sapiens

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<222> (112)
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<400> 2258
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1534

acaattcact ggccgtcgtt ttacaacgtc gtgactggga aaaccnaaa nn

112

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<211> 120

<212> DNA

<213> Homo sapiens

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<222> (120)

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tacaattcac tggccgtcgt ttacaacgt cgtgactggg aaaaccctaaa nnttttccn 120

<210> 2260

<211> 197

<212> DNA

<213> Homo sapiens

1535

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<400> 2260

1536

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tcccccgggc tgcaggaatt cggcacgagt ggcccnaggg ggggcccggg accctcttcn 120
ncnttttagtg agtcgtatta caattcnctg gccgtcgttt tacaacgtcg tgnctgggaa 180
aaccatggtt tggtgac 197

<210> 2261

<211> 242

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (20)

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<220>

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<222> (91)

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<220>

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<220>

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<222> (232)

<223> n equals a,t,g, or c

<220>

1537

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<220>
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<222> (238)
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ggagctccac cgcggtggcg gacgctctag nactagtga tccccgggc tgcaggaatt 120
cggcacgagc ggcacgaggg ggggcccggg acccaattcg ccctatagtg agtcgtatta 180
caattcactg gccgtcgttt tacaacgtcg tgactgggaa aaccacgcna nnaganangg 240
gc 242

<210> 2262
<211> 145
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (31)
<223> n equals a,t,g, or c

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<222> (47)
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<220>
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1538

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<222> (140)
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<220>
<221> misc feature
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<223> n equals a,t,g, or c

<220>
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<222> (143)
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ngtggagnng aagggtatat tgcgttagct ngccaattaa ccctcantaa tgggaacaag 60
acctggagct ccaccgcggt ggcggccgct ctagaactag tggatccccc gggctgcagg 120
aattcggcac gagggtnatn nantc 145

<210> 2263
<211> 373
<212> DNA
<213> Homo sapiens

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<222> (31)
<223> n equals a,t,g, or c

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<222> (40)
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<220>

1539

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<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
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<222> (335)
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<222> (340)
<223> n equals a,t,g, or c

<220>
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<222> (342)
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tggngcttta ccgcgctcnc ggtcgcttta nattagtttn tctccccggg ctgcaggaat 60
tcgatatcaa gcttatcgat accgtngacc tcgagggggg gcccggtacc caattcgccc 120
tatagtgagt cgtattacaa ttcaactggcc gtcgttttac aacgtcgtga ctgggaaaac 180
cctggcggtta cccaacttaa tcgccttgca gcacaatccc cctttngcca gcttgagta 240
ataagcgaag agggccgcac cgatcgccct tccaacagt tgcgcagcct gaatggcgaa 300
tgggacgcgc cctgtagcgn tgcattaagc gcgnnggtgn gntgggttacc cgcagtgtga 360
ccgctacact tgc 373

<210> 2264
<211> 434
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
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<222> (3)

1540

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<400> 2264

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ngnaaggtga nagcaacccg cactaaaggg aacaaaagct ggagctccac cgcgggtggcg 60
gccgctctag aactagtgga tcccccgggc tgcaggaatt cggcacgaga tttccaggta 120
gatttctcag ccagctctaa aacagattgc tttttcagtg gccttactct ttgtggggtt 180
tttttttttt ctctgaactt gatataaaga ttttatttgt cccttgaaaa agtaacaaat 240
gtgcatagat caatttgtac tactttgggc attggatatt tctgacctt attgcattgt 300
acctaaagga gagtaactaa tggtaacctt tttaatagag tatgtgaaag gtagtggctg 360
atgaatcctt aacgttcata gggctctttt gctgttacgg ttgtatatag aggtctggaa 420
ggatttttaa atg                                     434
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<210> 2265

<211> 375

<212> DNA

<213> Homo sapiens

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<222> (24)

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<222> (35)

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1541

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1542

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<222> (309)

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<222> (349)

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<222> (373)

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<400> 2265

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tcnagaacta ggggatnccc cgggctgcag gaattcgata tcaagcttat cgataccgtc 120
gacctcgagg gggggcccggt taccgaattc gccctatagn gagtcgnatt acaattcact 180
ggccgtcggg ttacaacgnc gagactggga aaaccctggc gntacccaac ttaatcgncn 240
tgnaggacat ccccttttcg ncagntggcg taatagcgaa gagggccgna ccgancgcct 300
tccaacagnt gcgcagcctg aatggcggaat gggacgcgcc ctgtacggng cattaagccg 360
cggcgggtgt gnggg                                     375
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<210> 2266

<211> 499

<212> DNA

<213> Homo sapiens

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<220>

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<222> (258)

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<220>

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<222> (290)

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<220>

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<222> (308)

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1543

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1544

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<222> (463)

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<220>

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<222> (473)

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aattcggcac gagnttcag tggcagcggg tctgggacag agttcactct caccatcagc 60
agcctgcagg ctgaagatgt ggcagcttat tcctgtcagc aatattatag ttttcctttc 120
actttcggcc ctgggaccaa agtggatata aaacgaactg tggctgcacc atctgtcttc 180
atcttcccgcc catctgatga gcagttgaaa tctggaactg cctctgttgt gtgcctgctg 240
aataacttct atcccagnga ggccaaagta cagtgggaagg tggataacgn cctccaatcg 300
ggtaactncc aggagagtgt cacagagcag gacagcaagg acaganctac agcctcagca 360
gcacctgacg gtgagcaaag cagatncggg gaacacaagt ttaggcttcg agtcancnt 420
cagggctnag ntgnccgtna aaagngttta acagggnggt ntngagggga gtncccactg 480
ttcttattca gctnaccct                                     499

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<210> 2267

<211> 504

<212> DNA

<213> Homo sapiens

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<222> (456)

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<220>

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<222> (483)

<223> n equals a,t,g, or c

<400> 2267

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gtgaaaatca ccagagtggg ggctgaggat gttgggggttt attattactg catgcaagct 60
ctacaaactc cattcacttt cggccctggg accaaagtgg atatcaaacg aactgtggct 120

```

1545

```

gcaccatctg tcttcatctt cccgccatct gatgagcant tgaaatctgg aactgcctct 180
gttgtgtgcc tgctgaataa cttctatccc agagaggcca aagtacagtg gaaggtggat 240
aacgccctcc aatcgggtaa ctcccaggag agtgtcacag agcaggacag caaggacagc 300
acctacagcc tcagcagcac cctgacgctg agcaaagcag actacgagaa acacaaagtc 360
tacgcctgcg aagtcaccca tcagggcctg agctcgcccc tcacaaagag cttcaacagg 420
ggagagtgtt agaggagaa gtggccccac ctgctnctca gtttcagcct gaccccttcc 480
atnctttggc ctctgacctt tttc 504

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<210> 2268

<211> 695

<212> DNA

<213> Homo sapiens

<220>

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<222> (163)

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1546

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1547

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<220>
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<222> (529)
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<220>
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1548

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ctctgcgttt atggaatata actgaagttg ctccagcact aantgtattt aatgatacta 180
aagaactggg aatccctgcc tctgtggatc tantgagcan tgacccgagc catatngtat 240
catcattcag caagggatat acaaacattt ttaacatgga aacacaacaa cgcattctca 300
ctttanaatc caatgtaata caacanccaa ctcttcctgc caaatnaatt nnantcatca 360
ntctcctact ctccgatca acatcctgct ccttaaaaaa ngcnatccaa ttctatnata 420
acnattccgg caaatnatcc ctccatggtn ccccccttaa actntttcaa ttttaacctt 480
ttaacccag ggccttacct tnanattttg gccncccaaa aatttcnnaa cnttttttgg 540
aacccecaaaa ttttaaaatt ttttcccaa aaatccccc nccccncaaa aaatttttta 600
aaaaaacanc ccccnatttt ttttttcccc ccccccaaa tttttttttt cccttttttg 660
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<210> 2269
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1549

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ggaagcggtc tcgttgccc tgcggcgctg gacccctgac gcacggagct cgagagcgag 120

1550

aacgggagag aaaggggtag aaatggcggc tccgctcggc tcccgtgag gagggcgaag 180
ccggcggagt gtctgtgctg ccggtctgca gcaccgcccc cgcttcccgc acgccgcctg 240
ctcacgccga cttcccttcc tctgcccggc tctctcttgt gtcgtctgc gctccgaacg 300
ctccgggccc gtcgtctct cattgcccgg ctcggctccg ctggccctga ctgaccggcc 360
ggcgggccc ccttgctcgg tcttccgggc gcggcgtgga ctccgtcccc tggctggacc 420
atggtgaaca cccggaagaa ctctnttcgc ttctcgggtn cnagtcttct ggtcccggcc 480
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WO 01/22920

1553

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ctgacttccg gggccactgg gtgctgatat tctttggctt cactcactgc cctgacatct 180
gcccacaaca actggaaaaa ctngtgcaag tngtncgaga gctgnaaaca aanctgggtt 240
tcctccagtn cacctgtctt catcactgtt gaccccaacn ggatnacttt aaccntgncc 300
nctacttcaa ganttcacc ccanantgtt nggtctnacc ggctcccaa anatgttgcc 360
cnngctaata ccattncgc tttnttcaa ttccnggcc ncgatnaagg aacatgaata 420
ctcttgaaca tcctttgctc tactctcacc cttanggtc ttcccgatta tacgnccgaa 480
caatcggtna acaatnttna ctttttcggg ggaaatgg 518

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<211> 184

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<210> 2272

<211> 681

<212> DNA

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ccnngcttc ctgcctcgga agcgcancac cnggnntcgt gggaaggatga anattctccc 180
taaggatgac ccatccaagc cgggtccacct cacatccttc ctgggataca aggctggcat 240
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gaaaaccctc cgangcctcc ggaccttcac tactgtcttt gctgancaca tcagtgatga 420
atgcannagg cgtttctatn nnaattggcn ttcattctaat aacaangcct ttaccatnta 480

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1560

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ctgcannaaa tngcaggatn aggatngcna gaagcngctg ggagaangac ttcagcagca 540
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gtgctggtga atgcatgaag aggttcacag tatcttttaa agtacttctg gaaaagataa 180
ggagttttaa aggtgggtgt gtacactggg cactgagctg cagtaggatt tttccttggg 240
atagtctggt ctggagctgg gacacagctg cnccttgggg aaaggcccgc tngcaagatg 300
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1562

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aaatatacca caactattta atgtgtatctt cancantata ccacaactat gtgatgtgta 180
tttcaacaat atgccacagc tntttaatat gtntttcaaa atnacacgca gtccttgctt 240
tgcatantaa tngtgaaacc ataagaaatc accataactnc tgagactcta canaancagt 300
gttnnatcat cagtgaagg aaattattat tctgtcacct ttacattttt atgtaaaaaat 360

1564

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 ctttcagtaa ctccatggcg cgcgcgtcgt acggggcaaa gccacacacc tcccgaatca 240
 tgteccgcac gaacttggtg tgtttggtca gacggccgcg gcgtcgggct gtgcctgggg 300
 cttgctcaag ttcttggtca ctttgtggnc cttgttgaag gcccacgggc ataagggtag 360
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ggtncaccaa cggattcgnc canttantta acgacgtttc ggaccccttc gaggtgctg 180
aagg nagtca gagaacangt aaaaagaagc cgggcggggn tcggcgtttg ngggccctgg 240
ngtcaagttg cgcac 255

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<211> 335
<212> DNA
<213> Homo sapiens

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catcaggaag aaagcttgct ttctttgctg gcgaccggcg cacgggtgag taacacgtat 120

1567

ccaacctacc ctttactcgg ggatagcctt tcgaaagaaa gattaatacc cgatgggata 180
atcattccgc atggtctgat tattaaagga ttccggtaaa ggatggggat gcgttccatt 240
aggttggttg tgaggtaacg gccaccaag ccttcgatgg ataggggttc tgagaggaag 300
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aacaatagaa tgtgagcttg ttcatgatct tgtggatagc tgtgtcccgg gagacacagt 180
gactattact ggaattgtca aagtctcaaa tgcggaagaa gggtctctgaa ataagaatga 240
caagtgtatg ttccttttgt atattgaagc aaattctatt agtaatagca aaggacagaa 300

1568

aacaaagagt tctgaggatg ggtgtaagca tggaaatgttg atggagttct cacttaaaga 360
cctttatgcc atccaagaga ttcaagctga agaaaacctg tttaaactca ttgtcaactc 420
gctttgccct gtcatttttg gtcataagc agcgtgcaat gttgccccac gtggcgtgta 480
tgnttgtggt aacaccacga ccacctttgg tctgacggta actctttcaa aagatagntn 540
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<211> 372

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acgtcgggca gcgtctatat caccttgaag aagtatgacg gtcgaaccaa acccattcca 180
aagaaaggta ctngggaaag gctttgagcc cgcagacaac aagngtctgt taagagctac 240
cgatgggaag aagaagatca gcactgtggt gagctccaag gaagtgaata agtttcagan 300
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caaaactnag aa 372

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1570

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tagcatattc caagccctgc caagaaagta ccaagactcc ctgccacagc agcagaaact 180
gaaagcagct gtcattagta atggggaaca ttaagatact ctgtgaaggT gcaagacttc 240
agggTggggT gggcatgggg tgggggtatg ggnaacattg gaggatggga tatctggggN 300
taattttaaa ggtttacctg ttatgtaatt tttaatgggn actnggcatg gggcccgggt 360
tgcttttccg ggtncctngg gaaa                                     384
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cgggagtcac aacactaaac agaccaaagt tcctcaatgc actgactctt aatatgattc 180
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1571

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taaaggggagc aggaggaaag gctttctgtg ccgggggtga tatcagagtg atctcggaag 300
ctgaaaaggc aaaacagaag atagctccag ttttcttcag agaagaatat atgctgaata 360
atgctgttgg ttcttgccag aaaccttatg ttgcatttat tcatggaatt acaatgggtg 420
ggggagttgg tctctnagtc catgggcaat ttcnagtggc tacagaaaaa gtgtcttttt 480
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actcacaaca atttgtttgc ctncaaggtc ctctgaggca gcaggctctg gggcttctgc 180
tgtccttttg aggggtgtctt ctgggtagag ggatgggaag gaagggaccc ttacccccgg 240
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an 302

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<212> DNA

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 tgaagaattg aaccgggagg tcgctggcca cacggagcag ctccagatga gcagggtccga 180
 ggttactgac ctgcggcgca cccttcaggg tcttgagatt gagctgcagt cacagctgag 240
 catgaaagct gccttggaag acacactggc agaaacggag gcgcgctttg gagcccagct 300
 ggcgcataatc caggcgctga tcagcgggat tgaagcccag ctggggcgatg tgcgagctga 360
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 ggagattgcc acctaccgca gcctgctcga gggacaggaa gatcactaca acaatttgtc 480
 tgcttccaag gtcctctgag gcagcaggct ctggggcttc tgctgtcctt tggagggtgt 540
 ctttctgggt agagggatgg gaaggaaggg acccttacct ccgggtcttc tcctgacctg 600
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1573

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aggctgccag ttattgaccc agaatcaggc aatactttgt acatcctcac ccacaagcgc 180
attctgaagt tcctcaaatt gtttatcact gagttcccca agccagagtt catgtccaag 240
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cccgtctatg tggtctctggg gatttttgta cagcatcgag tctcagccct gccagtgggtg 360
gatgagaagg ggcgtgtggt ggacatctac tccaagtttg atgttatcaa tctggcagca 420
gaaaagacct acaacaacct agatgtatct gtgactaaag ccttgcaaca tcgatcacat 480
tactttgagg gtgttctcaa gtgctacctg catgagactt ggagaccatc attaacaggc 540
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aagggggcaa aaaaaggngc ccaaaggnaa ggccgnaaga aaccagggtt ttttgaaaaan 420
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caccttggnn gagnaacacgg gaaaatctca tctgggtggtg ntacacacac gncgngtatc 180
cccatggngc tgggtgtttt cttncctncc ctgtgtngta aaatgggggn cccttactgc 240
attatcaagg gaaaggaan attggcgacg tattngtcca caggaagcnc ctgcaccatt 300
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cgcatgtccc ttcgcgggaa ggcttgtggt gctgatgggc aagaacacca tgatgccgca 240
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caagtctctc gtgtggggtc gnggggntcc atcctgggct cgctgtccac cttccaacag 180
atttngatca gcaagcanga attntgaana aattccgggc cctcccatc cgtccaccgc 240
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1584

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tatggacttt gtgttctgcc attcaggcac ctgcggaact cgagtcatgc aggagctttt 180
gtgatcgtga cggaagaagc cattgccaag gggatccgga ggaattgtgg cntgtcacia 240
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1585

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cggcccgcca ggccccccag gtattccagg atgcaatggc acaaaggggg agagagggcc 180
gctcgggcct cctggcttgc ctggtttcgc tggaaatccc ggaccaccag gcttaccagg 240
gatgaagggt gatccangtg agatacttgg ccatgtgccc gggatgctgt tgaaagggtga 300
aagaagattt ccggaatncc anggactnca ngccca 336
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1586

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tggggaatgg agcaaaacag tctttgaata tcgaacacgc aaggctgtga gactacctat 180
tgtagatatt gcaccctatg acattggtgg tcctgatcaa gaatttgggtg tggacgttnn 240
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gcctcatngg gatttggttg gtgaattggg aacagctctc cggaagagga acatncgcta 180
tggaactatac cactnactct tagagtggtn ncactnactc tatctacttg ataagaa 237

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1588

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gaggcccagg acgtctactc aggtgacatc atcagtggcc tccgagatga aaccaacttc 180
acagtgatca tcaacccttc aggggtagtg atgtgggtacc tgtatcccat caagaactgg 240
agatgtccca gcagtgagga actgggacat gtgacaggct gtggtggcac cactgagcct 300
agancatgga nccttggcat gccagggca agtngggaag ttctctgctc cccaggctgc 360
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1590

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tatttgcact tcctggaagg aaccggggac tatgactggc tggaaccact gcttntnaat 180
cagacggtga tgtcnatana cctnttctgg ttcaggcaca gaccccagga aagcttttcg 240
ggaagccctg ctcatagaca ggtacctgtt gntgcaccca gactttctcc gatacatgaa 300
caacagggtta cttgatgtct aaacacctgn attgtgccca ctggaatgat ataccgcccc 360
accactggng ccctcctgct gctcactgac cttccactct ttttaccaag ttagttgctt 420
tttgntncat cncnanggc catgagcgct tttcctgac actactatta tacatcatng 480
aaaccgctga atnttncata aaccatgact tccaacttga naaaaaaatt cttgaancg 539

<210> 2296
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1591

<212> DNA

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<400> 2296

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ctgacccctt tcatagnac cagaagctcc aggaagaaaa acataaaagc ataactgagg 120
cacttaggag acaggagcag aatataaaga gttttgagga gacctatgac cgaaagctca 180
agaatgaact tctaaacttc cacaggctgc atggtgtctg cctggctttg ggaatcctca 240
tatgactttg gcagggtgtg gngtttggag gctcttcggc acaggagtgc ttctatttcc 300
tt                                     302
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<212> DNA

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1592

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 ttccctatac tttccaccaa gacaacaatt tcctgtacct atgtggattc caagagcctg 180
 atagcattct tgtncctnag agcctccctg gcaaacaatt accatnacac aaagccatac 240
 tttttgtgcc tcggcgagat cccagtcgag aactttggga tgggccgnga tctggcactg 300
 atggagcaat aagctctaac tggagtagac gaagcctata cgctagaaga atttcaacat 360
 nntgtaccaa aaatgaaagc tgagacgaac atggtttggt attgactgga tgangtcctc 420
 acatggcaca ngttttactn ttgactatat tgcagccctc tgactgaggc caaagtcaan 480
 agcn 484

<210> 2298
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1593

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tgggggtgcag aaggatcgga tggataagaa tgcgtcaacc tttgaggatg tcaccaggt 180
gtcctctgcc taccagaaga cagtacctgt cgaagctgtg accagcaaaa caagtaacat 240
cagagctaac ttgaaaacc tcgctaagga gaaagagcag gaggacaggc ggaaggcgga 300
ngcngagaga gcccaacgga tggccaagga acggcaggaa caggaagagg ccaggaagaa 360
acttgganga acaagccaga gccaaaacgc aaacgcccc tgtgttnncc ggaccttaag 420
ccaaccnang gaaaagct 438

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 tgccctgcgc cgggcgacac ccagcactcg gaggaggcgg aaccgcagcc cagccaggag 180
 gcagagagtg ggagctggga gagaggcgtc ccagtgtccc ccatgcactg accagcactg 240
 ncgccctcct gacctccaag gagaacctcc catatgtcct ctgagctcgg cttcaaggcc 300
 agtggaaactt gtgcccctgt ccangcggtt gcaagctttg aacacactgt cagccccgct 360
 ttcttgtgga aggtgtgggc tatgggtcac ctggttgctg gaagaagggg cccttaccga 420
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<210> 2300
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 gtctgtcaa tctctgttgc acctgagggg gaaaaaacag ttcaactgct tactccaaa 180
 acagcctttt tggaaattat tttttaagtg ggctcctgac aatactgtat cagatgtgaa 240
 gcctggagct ttcctgatga tgctggccct acagtacccc catgagggga ttcccttcct 300

1595

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<211> 452

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tggcccgggg tgctcccgnc cggccgagtg attggcgagc ccacggagtc tgatggacgt 180
gttccccacc gtggtccggc tggcgggagg cgaggttgcc ccaggacaga gtgattnacg 240
gccaaagacct tcttgccctt gctccttggg acaaccaaac atttnagacc aggatttcct 300
gatgcattat ttttgagagt ttttttgnag gnaccagtg ggaattaaag gggcaaaggg 360
acantttggg aangcccatt ttnggaggct tttttttncn cancaaaggg gnnccntntc 420
ttttttnggn naaaatttnc cccttttttg gg 452
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<212> DNA

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aacgggaaac cagtattgcc ettaccgaac aataccaggc cgatgcgttt ttntgcgcgg 180
aagacggact gatgcagccc ctgaatcagg ctttcgggtcg ggccgggtgcg catactgcca 240
ccaggctgat gccgtncatc ggacttgcca ggtnaaattc ggaccggetg gcctttaagt 300
ttgctgccag aagcgggtggc aatgcagcgg gttaagggtt gacgnetgca acgacctnng 360
ncaacaggnc anccttgaag nagngcattt gncagtnatt ccgtttgtng ngnttttagn 420
gatttgggca tttta 435

<210> 2303
<211> 442
<212> DNA
<213> Homo sapiens

<220>
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<222> (45)
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<220>
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1601

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

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<220>

<221> misc feature

<222> (391)

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<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (411)

<223> n equals a,t,g, or c

<400> 2303

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cagacccaaa ggacttatct caatggngga atccagggtcc tgtgatgggc acttgggcaa 120
ctttttgggg gcaaggagtc ctgatgagac aattttctgc aatgacancc cncttcatct 180
gcttcacang tggagtccgg acatcatacc agnccctgct tcctgccgct tcaccaagga 240
gaccacccan aagaatttca acantntcta tggcaccaaa ggtaactaca cctccnggnt 300
ctgggagtac tcctncagca ttcagaactc tgacaatgac ctgcccgtnt tccaaggcat 360
ctcctccttc tccctgaaag gctatnctta ncttatgcgg agccnaagcc ncaaggccca 420
gccccagact tggaaatctg gc                                         442

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<210> 2304

<211> 254

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

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<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

1602

<220>
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<222> (14)
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<220>
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<220>
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<222> (45)
<223> n equals a,t,g, or c

<220>
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<220>
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<222> (248)
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<220>
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<222> (251)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

<400> 2304
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ggagccacgc gctacaatta cctaaaacct cgggcagaag aggagaggag gatagcagca 120
gaagagaaga agaagcagga tgaactgaaa cggattgccg gagaattggc agaagatgac 180
agcatattaa agngagtgac cctgcgaccc actccttgga ccagcagcgg atgaataaag 240
cttctgngn ngng 254

<210> 2305
<211> 443
<212> DNA

1603

<213> Homo sapiens

<220>

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<222> (198)

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<220>

<221> misc feature

<222> (199)

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<220>

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<222> (252)

<223> n equals a,t,g, or c

<220>

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<222> (260)

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<220>

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<222> (261)

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<220>

<221> misc feature

<222> (335)

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<220>

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<222> (342)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (363)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (401)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (411)

<223> n equals a,t,g, or c

1604

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<400> 2305

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gccccagaaa attaaaacaa accctgagaa ccaaaatgaa cgaaaatctg ttcgcttcat 60
tcattgcccc cacaatccta ggcctacccg ccgcagtact gatcattcta tttccccctc 120
tattgatccc cacctccaaa tatctcatca acaaccgact aatcaccacc caacaatgac 180
taatcaaaact aacctcanna caaatgataa ccatacacia cactaaagga cgaacctgat 240
ctcttatgct antatccttn ntcattttta ttgccacaac taacctcctc ggactcctgc 300
ctcactcatt tacaccaacc acccaactat ctatnaacct anccatgggc atcccccttat 360
gancggggcg aatgattata ggctttcgct ctaaaattaa ngatgcctc ncccanttct 420
taccacaagg cacacctaca ccc 443
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<210> 2306

<211> 716

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

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<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (81)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (219)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (225)

<223> n equals a,t,g, or c

1605

<220>
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<222> (252)
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<220>
<221> misc feature
<222> (440)
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<220>
<221> misc feature
<222> (534)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (562)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (573)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (688)
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<220>
<221> misc feature
<222> (689)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (715)
<223> n equals a,t,g, or c

<400> 2306
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tcattggccc cacaatccta nggntaccgc ccgcagtact gatcattcta tttccccctc 120
tattgatccc cacctccaaa tatctcatca acaaccgact aatcaccacc caacaatgac 180
taatcaaact aacctcaaaa caaatgataa ccatacacna cactnaagga cgaacctgat 240
ctcttatact antatcctta atcattttta ttgccacaac taacctctc ggactcctgc 300
ctcactcatt tacaccaacc acccaactat ctataaacct agccatggcc atccccttat 360
gagcggggcgc agtgattata ggctttcgc ctaagattaa aaatgcccta gccacttct 420
taccacaagg cacacctacn ccccttatcc ccatactagt tattatcgaa accatcagcc 480
tactcattca accaatagcc ctggccgtac gcctaaccgc ttacattact gcangccacc 540
tactcatgca ccttattgga ancgccacc tancaatatc aaccattaac cttccctcta 600

1606

cacttatcat cttcacaatt ctaattctac tgactatcct agaaatcgct gtcgccttaa 660
tccaaagcct acgtttttcca cacttctnnt taagcctctt acctgcacaa caacnc 716

<210> 2307
<211> 421
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (404)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (411)
<223> n equals a,t,g, or c

<400> 2307
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ggacaagatt agagaataca aatctaagcg acagacatct ggaggacctg ttgatgctag 120
ttcagagtat cagcaagagc tggagaggga gctttttaag ctcaagcaaa tgtttggtaa 180
tgcagacatg aatacatttc ccaccttcaa atttgaagat cccaaatttg aagtcacga 240
aaaaccccag gcctgaagaa ataaagtaaa attaactctgg taatttgtca cggattagtt 300
gtacaactag ttagaagttt cagaataaac atgcatttca taactgtcaa atgttctttt 360
aattctgagt ccaaataaat tatntggtga tgttgaaana cncnttaagc nctaaaatgg 420
g 421

<210> 2308
<211> 502
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (41)

1607

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (147)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (186)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (213)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (253)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

1608

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<220>
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 <222> (324)
 <223> n equals a,t,g, or c

<220>
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 <222> (346)
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<220>
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<220>
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<220>
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 <222> (462)
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<220>
 <221> misc feature
 <222> (468)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (488)
 <223> n equals a,t,g, or c

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 caactaacct cctcggactc ctgcctcact catttacacc aaccacccaa ctatctataa 120
 tcttagccat ggccatcccc ttatgancgg gcgcagtgat tatangcttt cgntctaaga 180
 ttaaanatgc cctagcccac ttcttatcaa aangcacacc tacaccctt atccccatac 240
 tagttattat ggnaaacatn atcctactcn ttenaccaat agccctgggc gtnagcctaa 300
 tcgcttacat tactgnaggg cacntactca tgcacctcat tggaancgtc ccctacaata 360
 tcaatcatta aacttccttc tacacttata tcttcacatt ctattctaac ttaatatcct 420
 aanaaattcc ttttcncttt attccaagcc caactttttc cnactttntt cttaaaccct 480
 ttactttncg aaaaaccttt tt 502

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1609

<210> 2309
<211> 283
<212> DNA
<213> Homo sapiens

<220> .
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<400> 2309
gcgggaagcc ttccagagtg tgggtgctgcc ggcctttgag aagagctgcc aggccatgtt 60
ccagcaaadc aatgatagct tccggctggg gacacaggaa tacttgacgc agctagaaaag 120
ccacatgaag agccggaagg cacgggaaca ggaggccagg gagcctgtgc tagcccagca 180
agcccatatc ctgcagctgc tgcagcaggg ccacctcaat caggccttnc agcaggcgct 240
gacagctgct gacctgaacc tgggtgcttgt atgtgtgtga aat 283

<210> 2310
<211> 514
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (274)
<223> n equals a,t,g, or c

<220>
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<222> (275)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (367)

1610

<223> n equals a,t,g, or c

<220>

<221> 'misc feature

<222> (374)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (468)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (477)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (484)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (512)

<223> n equals a,t,g, or c

<400> 2310

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gcagcattcg ggccgagatg tctcgctccg tggcctgagc tggtctcgcg ctactctctc 60
tttctggcct ggaggtatc cagcgctatc caaagattca ggtttactca cgtcatccag 120
cagagaatgg aaagtcaaatt ttcctgaatt gctatgtgtc tgggtttcat ccatccgaca 180
ttgaagttga cttactgaag aatggagaga gaattgaaaa aagtggagca ttcagacttg 240
nctttcagca aggactggtc tttctatctc ntgnnctaca ctgaattcac cccactgaa 300
aaaagaatga agtattgcct ggccgtgtga accatgggtga ctttttcaca agccaaagat 360
agtnaantgg gaancaagac atgttaagca gcatcatgga aggtttgaag aatccccatt 420
tgggaattgg atgaattccc aaattcttgc ttgcttggct ttttaaanaa tggnaancct 480
attncacttt aacactttta ttgccccaaa antg 514

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<210> 2311

<211> 471

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

1611

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (149)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (161)

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<220>

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<222> (172)

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<220>

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<222> (332)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (434)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (439)

<223> n equals a,t,g, or c

<400> 2311

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atcccccggg ctgcaggaat tcggcacgag cgaagcgggg gctgccccag tcaactgcagg 120
acgccgaccg cctgcgccgc tccccactnc tgcgggggccg nccccgccag gnccacctgc 180
ctctgctgcc gccctccaac tcctactggg ccggccacac ccccgagcag cactagtcct 240
gcctggtggc cctgggagcc aggatgggac caaagtcaag gcctggggca tggctgagta 300
ccccagacgt ctggtccagg gcagacacat tnctctcaga agcccggtgc tcagtgcagg 360
tgagaccgtg gggacagcgt gaaggtgtct ccagccaggc cccaggcact ggaggccctg 420
ggtcttcccc cagnacanc cagtaggtgt ggaggataaa ggcttctgtg g 471
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<210> 2312

<211> 387

<212> DNA

<213> Homo sapiens

1612

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<400> 2312

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ggtntgcatg tcatacgcggt tccacacgcc agacaagctc agcttcatcc tggacctcat 60
gaacgggtggg gacctgcact accacctctc ccagcacggg gtcttctcag aggctgacat 120
gcgcttctat gcggccgaga tcatcctggg cctggagcac atgcacaacc gcttcgtggg 180
ctaccgggac ctgaagccag ccaacatcct tctggacgag catggccacg tgcggatctc 240
ggacctgggc ctggcctgtg acttctcaag aagaagcccc atgccagcgt gggcaccac 300
gggtacatgg ctccggaggt cctgcagaag ggcgtggcct acgacagcag tgccgactgg 360
ttctctctgg ggtgcatgct cttcaag 387
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<210> 2313

<211> 119

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (108)

<223> n equals a,t,g, or c

<220>

1613

<221> misc feature
<222> (109)
<223> n equals a,t,g, or c

<400> 2313
nnccctacgc cggttacttt cggtttcttn ccttcctttt ttgccacgtt cgccgggttt 60
ccccgtcaag ctttnaatng ggggctccct ttagggttcc caattaanng ctttacggg 119

<210> 2314
<211> 739
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (666)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (672)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (677)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (712)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (732)

1614

<223> n equals a,t,g, or c

<400> 2314

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nctactatcg ggaaagctgg tacgcctgca ggtaccggtc cggaattccc ggggggtggtt 60
acgcgcagng tgaccgctac acttgccagc gccctanccg ccgctccttt cgttttcttc 120
ccttcctttc tcgccacggt cgccggcttt ccccgctcaag ctctaaatcg ggggctccct 180
ttaggggttc gatttagtgc ttacggcac ctcgaccca aaaaacttga ttaggggtgat 240
ggttcacgta gtgggccatc gccctgatag acgggttttt gccctttgac gttggagtcc 300
acgttcttaa tagtggaact ttgttccaaa ctggaacaac actcaaccct atctcggctc 360
attcttttga ttataaggg attttgccga ttctggccta ttggttaaaa aatgagctga 420
tttaacaaaa atttaacgcy aattttaaca aaatattaac gcttacaatt taggtggcac 480
ttttcgggga aatgtgcgcy gaaccctat ttgtttattt ttctaaatac attcaaatac 540
gtatccgctc atgagacaat aaccctgata aatgcttcaa taatattgaa aaaggaagag 600
tatgagtatt caacatttcc gtgtcgccct tattcccttt ttttgcggca attttgcctt 660
ccctgntttt tngcttnacc ccagaaaacg ctggtggaaa aggttaaaaa gnattgcctt 720
gaaatatcca antttgggt                                     739

```

<210> 2315

<211> 153

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (130)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (138)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (143)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (149)

<223> n equals a,t,g, or c

<400> 2315

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tctagatcgc gagcgccgc tctagaggat ccaagcttac gtacgcgtgc atgcgacgtc 60
atagctcttc tatagtgtca cctaaattca attcactggc cgtcgtttta caacgtcgtg 120
actgggaaan cccaaaancc gcncaacnng atg                                     153

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1615

<210> 2316

<211> 291

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (190)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (203)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<400> 2316

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ttactagttc tagatcgcca gcggccgntc tagaggatcc aagcttacgt acgcgtgcat 60
gcgacgtcat agctcttcta tagtgtcacc taaattcaat tcaactggccg tcgttttaca 120
acgtcgtgac tgggaaaacc ctggcggttac ccaacttaat cgccttgacg cacatcccc 180
tttcgccagn tggcgtaata gcnaagaggc ccgcaccgat cgccttccca acagttgcgc 240
agnctgaatg gngaattggga cgcgccctgt agcnngcgca ttaaaccgccg g          291
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<210> 2317

<211> 363

<212> DNA

1617

<400> 2317
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accggtccgg aattcccggg tcgacccacg cgtccgcca cgcgtccggg ggttgagggg 120
caaagtagtg aagaactgta agatattcaa tatagtgtat tgatgaatta gaattgtatg 180
gaaagataaa ccgcagaagg tgagagtcct gtataagtaa atccttacac atataacttt 240
gctcccaagt aacatggaac acgaggaatt ctgtgtgaat cagngaggac catatctnat 300
aaggctaaat actcttacta accgatagcg catagnaccg ngagggaaag gngaaaagaa 360
ccc

<210> 2318

<211> 459

<212> DNA

<213> Homo sapiens

<220>

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<222> (145)

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<222> (279)

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<220>

1618

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<220>
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<220>
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<220>
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ggaattcccg ggtcgattna cgcgttttta gatcgcgagc ggccgctcta gaggatccaa 120
gcttacgtac gcgtgcatgc gacgncatag ctcttctata gtgtcaccta aattcaattc 180
actggccgtc gttttacaac gtcgtgactg ggaaaaccct ggcgttaccc aacttaatcg 240
ccttgacgca catccccctt tcgccagctg gcgtaatanc gaaaangccc ggaaccnatn 300
gcccttnccc aacagggttg gcagccttga atggcgaatg ggacgcgccc tgtaagcggc 360

1619

gcattaagcg cggcnggtgt ggtgggttacg cncagcgtga ccgctacact tgccagcgcc 420
ctagcgccccg ctcttttcna ttcttccct tcttttnt 459

<210> 2319

<211> 566

<212> DNA

<213> Homo sapiens

<220>

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<222> (13)

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<220>

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<222> (19)

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<220>

<221> misc feature

<222> (421)

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<220>

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<222> (483)

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<220>

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<222> (540)

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<222> (543)

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<220>

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<222> (560)

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<220>

<221> misc feature

<222> (564)

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gtccggaatt cccgggtcga cccacgcttt cgcgccattc aaaggccatt tctgttacta 120

1620

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tcgtttggaa tacagtgtgg ccaaagccaa ggcaactggt cactgtgact ggaaattgta 180
gccctggctg attgtggtat gagactgcta atatgaattc taaaatctca ctttaatgca 240
gcaaagccta tttcttgaag tggttgggga gaaagtacag cacatgaaaa tgatagagaa 300
ttcacatttc agtgtatgta aataaagact tactggagtg cagccacact taaaaaaaaa 360
aaaaaagggc ggccgctcta gaggatccaa gcttacgtac gcgtgcatgc cgacgtcata 420
nctcttctat agtgtcacct aaattcaatt cactgggccg tcgtttacac gtcgtgactg 480
ggnaaaaccc tgcggtaccc caacttaatc cgccttgacg aacatcccc ttcgcaagn 540
tgngaatacc aaaaggcccn accnat 566
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<210> 2320

<211> 253

<212> DNA

<213> Homo sapiens

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<220>

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<222> (7)

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<222> (16)

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<220>

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<222> (233)

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<222> (246)

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<220>

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1621

<222> (247)

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<400> 2320

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cggtcgacc caccgctccg ggctgtgggc ccagtgetga attctgcaa gcagtgactt 120
gattcatgaa cactcactgg atgctgactc tgtttctctt ctgagtgetg gggtagagga 180
gaggagaggt ggagcacaga tcttgctttt atgagcttat gntctaggaa gnncaaaca 240
gtattnttc agg 253
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<210> 2321

<211> 195

<212> DNA

<213> Homo sapiens

<220>

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<222> (23)

<223> n equals a,t,g, or c

<220>

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<222> (26)

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<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

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<222> (126)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (184)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (190)

<223> n equals a,t,g, or c

<220>

1622

<221> misc feature

<222> (194)

<223> n equals a,t,g, or c

<400> 2321

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gctagttcta gatcgcgggc ggncgntcta gaggatccaa gcttacgtac gcgtgcatgc 60
agacgtcata gctnttctat agtgtcacct aaattcaatt cactggccgt cgttttacaa 120
cgttnggact gggaaaaccc tggcgnacc caacttaaac gacttgagcgt acattccctc 180
tttngccagn tggng                                     195
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<210> 2322

<211> 455

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (86)

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<220>

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<222> (93)

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<220>

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<222> (95)

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<220>

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<222> (96)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (99)

<223> n equals a,t,g, or c

<220>

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<222> (126)

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<220>

1623

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<220>
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<222> (225)
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<220>
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<220>
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<222> (425)
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<220>
<221> misc feature
<222> (438)
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<220>
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<222> (454)
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ccgtttctta ctcccttatgt ttgaanagaa acntnnngng tgagatatac aaatatatatt 120
aattgngtca tattaaactt ctgatttnac aaaaaaaaaa aaaaaggggcg gccgctctan 180
aggatccaag cttacgtacg cgtgcatgcg acgtcatagc tcttntatag tgtcacctaa 240
attcaattca ctggccgtcg ttttacaacg tcgtgactgg gaaaaccctg gcgttaccca 300
acttaatcgc cttgcagcac ataccctttt cgccagctgg cgtaatagcg aagaggcccg 360
caccgatcgc ccttnccaac agttgcncag cctgaatggc gaatgggacg cgccctgtag 420
cggcncatta agcgcgngng gtgtggtggt tacnc 455

<210> 2323
<211> 211

1624

<212> DNA

<213> Homo sapiens

<220>

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<222> (2)

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<220>

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<222> (7)

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<220>

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<222> (23)

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<222> (28)

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<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

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<222> (144)

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<220>

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<222> (160)

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<222> (197)

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<222> (208)

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<220>

<221> misc feature

<222> (211)

1625

<223> n equals a,t,g, or c

<400> 2323

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caggtaccgg tccggaattc ccgggtcgac ccacgcgtcc gccgacgcgt gggcggacgc 120
gtgggcgac gcgtgggtca aagntggata caagaagctn tttgtactgg atgatcgtga 180
gggtcataat gaggtanaac cactttgnat n 211
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<210> 2324

<211> 231

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (53)

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<220>

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<220>

<221> misc feature

<222> (214)

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<220>

<221> misc feature

<222> (223)

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<220>

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<222> (224)

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<220>

<221> misc feature

<222> (229)

1626

<223> n equals a,t,g, or c

<400> 2324

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ggccgctcta gaggatccaa gcttacgtac gcgtgcatgc gacgtcatag ctcttctata 120
gtgtcaccta aattcaattc actggccgctc gttttacaac gtcgtgactg ggaaaaccct 180
ggcgttacct ancttaatcg ccttgacagca catnccctt tcnntcagnt g          231
```

<210> 2325

<211> 148

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (6)

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<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

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<222> (89)

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<221> misc feature

<222> (92)

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<221> misc feature

<222> (110)

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<220>

<221> misc feature

<222> (112)

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<220>

<221> misc feature

<222> (136)

1627

<223> n equals a,t,g, or c

<400> 2325

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tccggaattc ccgggtcgac ccacgcgtnc gnaagctgac acagaccttn antacgtatt 120
ctgacaacca agaggnggag attatgaa 148
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<210> 2326

<211> 142

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

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<220>

<221> misc feature

<222> (7)

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<220>

<221> misc feature

<222> (112)

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<220>

<221> misc feature

<222> (118)

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1628

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<222> (127)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

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tcccgggtcg acccacgcgt ccggggagag ttcacattat tncctttcca tnggaagngg 120
tgctggngna ttcaaatacgt tc 142

<210> 2327
<211> 155
<212> DNA
<213> Homo sapiens

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<220>
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<222> (50)
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<220>
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<222> (128)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (136)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

1629

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (153)
<223> n equals a,t,g, or c

<400> 2327
cttctctgga tangccngta gaactcctct ggaaaccctc actatagggn aagctgggtac 60
gcctgcaggt accggtccgg aattcccggt tcgacccacg cgtccgccca cgcgtccgcc 120
cacgcgtncg aaaaanaaag gaanaaaaaa nanaa 155

<210> 2328
<211> 130
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
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<222> (9)
<223> n equals a,t,g, or c

<220>
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<222> (21)
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<220>
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<220>
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<222> (114)
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<220>

1631

<222> (79)

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<222> (124)

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<220>

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<222> (133)

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<220>

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<222> (156)

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<222> (187)

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<220>

<221> misc feature

<222> (188)

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<400> 2329

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tactataggg aaagctggta cgcctgcagg taccgggtccg gaattcccgg gtcgacccac 60
gcgtccggnc aatntngnng cttcttgtgg ccaacttcag agcctgtcac caggaaaggt 120
aagnatggga ggnatgaaga tccaacatat gaacanaatg tttatgggtt ataagagaac 180
tctcagnncc c                                     191
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<210> 2330

<211> 216

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1632

<222> (93)
<223> n equals a,t,g, or c

<220>
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<222> (172)
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<220>
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<222> (197)
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<222> (201)
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<220>
<221> misc feature
<222> (206)
<223> n equals a,t,g, or c

<220>
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<222> (214)
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ccgggtccgga attcccgggt cgaccacgc gtncgcagaa agggagacca ttatcatctt 120
tcagggaaca atccctggga atgtacttat tcattatggc ataaaagcag tngtataaat 180
acattcccag ggattgntcc nagaanggga gacnat 216

<210> 2331
<211> 309
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature

1633

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<223> n equals a,t,g, or c

<220>
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<222> (128)
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<220>
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<220>
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<223> n equals a,t,g, or c

<220>
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<222> (222)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (305)
<223> n equals a,t,g, or c

<400> 2331
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accggtccgg aattcccggg tgcaccacg cgtccgggca tttctgaagt gcactttntt 120
gaaacatnat ttgctaact ctcagcagtg tctaattaaa ctgagcaata nttttgtgaa 180
ttttaattaa tctcagcaaa accatgatgg gagagagtcn tntgatggaa atgtagtccc 240
tggattatgt gtaacctttt tattgntctt agatgcanag gatagaaaag cattttttgg 300
tgcantggt 309

<210> 2332
<211> 158
<212> DNA
<213> Homo sapiens

1634

<220>
<221> misc feature
<222> (113)
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<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (145)
<223> n equals a,t,g, or c

<220>
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<222> (146)
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<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<400> 2332
ggactagttc tagatcgcca gcggccgctc tagaagatcc aagcttacgt acgcgtgcat 60
gcgacgtcat agctcttcta tattgtcacc taaattcaat tcactggccg tcnttttaca 120
acgtcgtgac tgggaaaacc naacnncang cccttcac 158

<210> 2333
<211> 219
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
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<220>
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<222> (16)
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<220>

1635

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<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

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attccccgggt cgacccacgc gtccgactag ttctagatcg cgagcggccg ctctagagga 120
tccaagctta cgtacgcgtg catgcgacgt catagctctt ctatagtgtc acctaaattc 180
aattcactgg ccgtcgtttt acaacgtcgt gactgggaa 219
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<210> 2334

<211> 160

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (84)

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<220>

<221> misc feature

<222> (156)

<223> n equals a,t,g, or c

<220>

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<222> (158)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (159)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (160)

<223> n equals a,t,g, or c

<400> 2334

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gcccacgcgt ccggactagt tctagatcgc gagcggccgc tctagaggat ccaagcttac 60
gtacgcgtgc atgcgacgtc atanccttc tatagtgtca cctaaattca attcactggc 120
cgtcggtttta caacgtcgtg actgggaaac caaaanannn 160
```

<210> 2335

1636

<211> 154

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (151)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (152)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (154)

<223> n equals a,t,g, or c

<400> 2335

```
ggactagttc tagatcgcca gcgcccgctc tagaggatcc aagcttacgt acgcgtgcat 60
gcgacgtcat agctcttcta tagtgtcacc taaattcaat tcactggccg tcgttttaca 120
acgtcgtgac tgggaaaacc caaanagaaa nnnn                               154
```

<210> 2336

<211> 143

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1637

<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (64)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (109)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (112)
<223> n equals a,t,g, or c

<400> 2336
gntagttcta natchcgagc ggncgancna gaggatccaa ncttangtac gcgtgcatgc 60
gacntcatag ctctnctatc atgtcaccta aattcaattc actggccgnc gnattacaac 120

1638

gtcgtgactg ggaaaacgaa tgt

143

<210> 2337

<211> 246

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (241)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (244)

<223> n equals a,t,g, or c

1639

<220>

<221> misc feature

<222> (245)

<223> n equals a,t,g, or c

<400> 2337

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ggnnnctnan tacgctctct aaaatacgag gccctataag gaaagctggt acgcctgcag 60
gtaccggtcc ggaattcccg ggtcgacca cgcgtccgga ctagttctag atcgcgagcg 120
gccgctctag aggatccaag cttacgtacg cgtgcatgcg acgtcatagc tcttctatag 180
tgtcacctaa attcaattca ctggccgctg ttttacaacg tcgtgactgg accccaaaaa 240
nnnnna                                     246
```

<210> 2338

<211> 95

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<400> 2338

```
ntgattacgn nntctcaaat acgagtcact atanggaaag ctggtacgcc tgcaggtacc 60
ggtccggaat tcccgggtcg acccacgcgt ccgct                                     95
```

<210> 2339

<211> 110

<212> DNA

<213> Homo sapiens

1640

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<400> 2339

gggggggggg ggtgggtaat gattacgccc tctcnaatac gantcactat agggaaagct 60
ggtacgcctg caggtaccgg tccggaattc ccgggtcgac ccacgcgtcc 110

<210> 2340

<211> 151

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<220>

1641

<221> misc feature
<222> (124)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (127)
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<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c

<400> 2340
ntgattacgg cncctcctcaaa tacgacncnc tatagggnaa agctggtacg cctgcaggta 60
ccggtccgga attcccgggt cgacccacgc gtccgggggt ttagtcgtga tttttttttt 120
ttnnccnggt tgtngtcttt tttaagcaan a 151

<210> 2341
<211> 159
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (156)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (157)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c

<220>
<221> misc feature

1642

<222> (159)

<223> n equals a,t,g, or c

<400> 2341

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gcggacgcgt gggactagtt ctagatcgcg agcgggccgct ctagaggatc caagcttacg 60
tacgcgtgca tgcgacgtca tagctcttct atagtgtcac ctaaattcaa ttcactggcc 120
gtcgtttttac aacgtcgtga ctgggacccn aaaaannnn 159
```

<210> 2342

<211> 138

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (133)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (134)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (136)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (137)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (138)

<223> n equals a,t,g, or c

<400> 2342

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gatcgcgagc ggccgctcta naggatccaa gcttacgtac gcgtgcatgc gacgtcatag 60
ctcttctata gtgtcaccta aattcaattc actggccgctc gttttacaac gtcgtgactg 120
ggaaacccaa aanntnnn 138
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<210> 2343

<211> 175

<212> DNA

1643

<213> Homo sapiens

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (160)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (168)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (169)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (174)

<223> n equals a,t,g, or c

<400> 2343

gcagggtagg tacaaaaacc tcccgtggta ncaaaagggc ggccgctcta aaagatccaa 60
gcttacgtac gcgtgcatgc ggacgtcata gctcttctat agtgtcacct aaattcaatt 120
cactggccgt cgttttacaa cgtcgtgact gggacccccc aaatnggnng gggnt 175

<210> 2344

<211> 584

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (63)

<223> n equals a,t,g, or c

1644

<220>
 <221> misc feature
 <222> (548)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (554)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (572)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (582)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (583)
 <223> n equals a,t,g, or c

<400> 2344
 taagctggta cgcctgcagg taccgggtccg gaattcccgg gtcgaccac gcgtccgagt 60
 ntnataaaaa aaagggttcag tattttcttt ttagtataac ttacatcctt tcaaataagt 120
 ctttgccttc atgaagaatc cctagaggaa gataaggaaa ataagtattt tccagttttg 180
 cttgacagtt tctaaacaaa caaaaataaa ctcaatgaaa ggaaagatgt ttcttttttag 240
 ctgagatgac agattgcttc tctgtattaa atagtctaga agttaagggg atggtcacat 300
 ttaccatgta ttgtgttatt agcagttaaa ttttatgaat atgtttgtaa aattgttggt 360
 ttatatattca tgtcaaattg aaaagtttat ttcttcacta ttgtacctgt ggaaatacaa 420
 gccattttac aggaaaaaat cttcaaaaac tattaatatg atatcagcct gttaaaaaaa 480
 aaaaaaaagg gcggccgctc tagaggatcc aagcttacgt acgcgtgcat gcgacgtcat 540
 agctcttnta tagngtcacc taaattcaat tnactggccc gnnng 584

<210> 2345
 <211> 438
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (3)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (24)

WO 01/22920

1645

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (97)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (231)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (259)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (261)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (327)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (361)

<223> n equals a,t,g, or c

1646

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<400> 2345
ccnttatgga aagccccgtt gcgnaancaa ttccacacag gaaacagcta tgaccatgat 60
tacgccaaag tctaatacga ctactatag ggaaagntgg tacgcctgca ggtaccgggc 120
cggaattccc gggtcgaccc acgcgtccga ctagncttag atcgngggcg gccgctctag 180
aggatccaag cttacgtacg cgtgcatgcg acggcatagc tcttctatag ngacacctaa 240
attcaattca ctggccgtng ntttacaacg acngactgg gaaaaccctg gcgttaccca 300
acttaatcgc cttgcagcac atccccnttt cgccagctgg cgtaatagcg aagaggcccg 360
naccgatcgn cttgccaaca ggtgcgcagn ctgaatggcg aagggacgcg ccctggagcg 420
gngcattaag cgcggnngg 438

<210> 2346
<211> 168
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

1647

<220>
<221> misc feature
<222> (159)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (162)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (166)
<223> n equals a,t,g, or c

<400> 2346
ggacgcgtgg tttnaccac gcgtacnaca ggcgcgctg tagaggatcc aagcttaccg 60
tacgcgtgca tgccgacgnc atagctcttc tatagtgtca cctaaattca attcactggc 120
cgtcgtttta caacgtcgtg actgggaaaa ccagacann tnattnat 168

<210> 2347
<211> 575
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c

<220>

1648

<221> misc feature
<222> (78)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (548)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (550)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (561)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (569)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (571)
<223> n equals a,t,g, or c

<400> 2347
ggmctataca aaatngntcg ggaaccagct catgaccatg attacgcaa gctctaatac 60
gactcactat antgattngc tggtagcct gcaggtagcgt gtccggaatt cccgggtcga 120
cccacgcgtc cgcccacgcg tccgtttaat ttgtacttaa aatacathtt actaatcata 180
ttgattttta atagacaaa ttcttctagt agataactaa ctttcttggt tatcatattg 240
tcctagagaa gcctaggtaa aaatgggttc cacctagtct gtttgataaa caccttcccc 300
cgccccctct ccacccctgc caattgggct ctatgcata tgacaagcaa ataagaaaac 360
cttaggtttc ttgtatttga atttccaaaa caataaaagg ttttgactca agatttgcat 420
tcaagaagag gcagaaattt tgtcttatct ttttatcatt ttgtgaactt gtgtttctct 480
gtatgcttag aaaattttac acacaaggaa tgtttgaaaa agtgagaatt ttagagtgtc 540
tggtgtgntn tatttggcag ngctgatgng ntagg 575

<210> 2348
<211> 188
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

1649

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (174)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (184)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (187)
<223> n equals a,t,g, or c

<400> 2348
ggnaagacag nttatcncca tgattacgcc aagctctaatac gactcact atagggantn 60
gttggtacgc ctgcaggtac cgggtccggaa ttcccgggtc gacccacgcg tccgctaagt 120
ctgatcgcat tgtgaatgaa acttagattt gaaaacagct cctaggatnc ctgncagenc 180
ctgnagna 188

1650

<210> 2349

<211> 168

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (71)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (154)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<400> 2349

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acataatnng atcngtactc actcatgacc atgattacgc caagctctaa tacgactcac 60
tatatngatt ngctggtagc cctgcaggta ccggtccgga attcccgggt cgacccacgc 120
gtccgaatat ttgttgctgg aataaatgaa tganntaaaa aaaaaaaaaa 168
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<210> 2350

<211> 379

<212> DNA

<213> Homo sapiens

<220>

1651

<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c

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<222> (370)
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<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature

1652

<222> (379)

<223> n equals a,t,g, or c

<400> 2350

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accgaanact taatcaggaa ncagccntga ccengattac gccaaagtct aatacgactc 60
actataggga anagctggta cgctgcagg taccgggtccg gaattcccgg gtcgacccac 120
gcgtccgact gacgtgaaga aaatatgccca ttgtttattc cctcctgcat catttccata 180
atttgctttt gtactgtcaa tttagaggaa atgtgtgatg ctggtgtttt gtttggcctg 240
tttgtttgat gctggggggtt ttatgtgttg naccctttac cccttacatt gngtaatttg 300
aaagtggcaa acaaacctgc agtaaaagtc cttgattggc atcttcattc ggatgatgga 360
gagcctttgn ggnagnngn                                     379
```

<210> 2351

<211> 224

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (101)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (121)

<223> n equals a,t,g, or c

1653

<220>
<221> misc feature
<222> (137)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (159)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (210)
<223> n equals a,t,g, or c

<400> 2351
cntaagggga atcngnnaac agccatgacc atgattacgc caagctctaa tacgactcac 60
tataggga gctggtacgc ctgcaggtag cggnccggaa ntcccgggtc gaccacgcg 120
nccgcccacg cgtccgntcc tatgaccaca aagggccgna agaaatattt ttactactaa 180
aatacacttg ggtaccactt gnattttagn gtaataaaa agat 224

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<211> 440
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1654

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<220>

1656

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1657

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tnccggnccg gaattcccgn ntcgnccac gcgtccggga gcagagagga ggcaanggcc 180
accatggaga acaaggngat ctgcgcctg gncctggngn ccatgctggc cctcggcacc 240
ctggccg 247

<210> 2354

<211> 315

<212> DNA

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1658

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nccggaattc ccgggtcgac ccacgcgtcc gcatggnttt cggngattta gagtttaagc 180
cagnagnngg gcgactgtac atctatcgac atggngagggt agagcatggt tgggaggaaa 240
gacgntgaat cccatttggn gacagngagc ttgaggngct gccagaacac tgcactgaag 300
ataggaggag actgn 315

<210> 2355
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<212> DNA
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1659

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<220>
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<222> (192)
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<220>
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<222> (194)
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<220>
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<222> (195)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (197)
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tctaataacga ctactattt gggaaagttt ggtacgcctg caggtaccgg tccggaattc 120
ccgggtcgcac ccacgcgtcc gggatatattg taaaaaatat cctgcattat cttcaaaata 180
aagaaacacg cnannnn 197

1660

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ggtaccggnc cgggaattccc gggncgaccc acgcgtccgg ctaggagccg cgcgagtcgt 120
agngacgntg aatgcgggt 139

<210> 2357
<211> 578
<212> DNA
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1661

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<220>
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<220>

WO 01/22920

1662

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<220>
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 ggaaanttggt tacgcttgca ggtaccggtc cggaattccc gggtcgaccc acgcgtccgg 120
 gtgaaagggg ggaccctacc ctccagaacat gaggggaataa tatttacgng gctcacaag 180
 accagtgagt acatcatatg catctntcac aactccccag aagagggcct ccagcacgag 240
 tctaggctca gccttnnctg accctccgag aactctatga attgctgcca agtgntttaa 300
 ttttcctnag aatttcctng naatgttatt gaggggttga ggtcctttta caaattttgg 360

1663

aaataagtaa atcaaagag aagaccatgc ttccaaacaa tcattctggt taacagatcc 420
cctngattta atgcaattat gaatgcgtta gnggtagtgt agttaagan ctttcctngg 480
atgnacangc tttaagaaac caacctagga gnggattttc tataagnaat gggcttaaga 540
ctttacgctt tacacatcaa tgatatacgc tggctttt 578

<210> 2358

<211> 166

<212> DNA

<213> Homo sapiens

<220>

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<222> (14)

<223> n equals a,t,g, or c

<220>

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<222> (137)

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cgactcacta tagggaaagc tggtagcct gcaggtagc gtccggaatt cccgggtcga 120
cccacgcgtc cgaaaanann aanagaacct taaaaaacta gaganc 166

<210> 2359

1664

<211> 369

<212> DNA

<213> Homo sapiens

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<222> (70)

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<220>

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<220>

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<222> (357)

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<400> 2359

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tagggaaann tggtacgcct gcaggtagcg gtccggaatt cccgggtcga cccacgcgtc 120
cgaaagttttt aagtcctggg ttttcagact actgtgtagc agctgtgtgt ttaacatact 180
gtagctttttt ctcccttggg ggcacataca aataggatgt gttgatgtgg actctaaact 240
gtaattttcc tgtaactatt ttggaatgat gcatatttct aatgtttgtt atacttgtac 300
agagtattgc tgntgggtgc tttntttttt ttttaaggaa aaaanggcnt gaaaacnttt 360
ttttaaaga                                     369
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<210> 2360

<211> 185

<212> DNA

1665

<213> Homo sapiens

<220>

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<222> (155)

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<220>

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<222> (176)

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<222> (177)

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<220>

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<222> (179)

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gactcactat agggaaagct ggtacgcctg caggtaccgg tccggaattc ccgggtcgac 120

ccacgcgtcc gggcctntga aaataaggaa gcatnggagc tatagccatg tagagnnang 180

ggcta 185

<210> 2361

<211> 404

<212> DNA

<213> Homo sapiens

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1666

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<222> (402)

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<220>

<221> misc feature

<222> (403)

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<220>

<221> misc feature

<222> (404)

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<400>, 2361

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accggtccgg aattccccggg tcgacccacg cgtccgaaat aaccttttgt ggtcactgta 120
aaattaatat ttggtagaca gaatccatgt acctttgcta aggttagaat gaataattta 180

1667

ttgtattttt aatttgaatg tttgtgcttc cgttttgttt ctgctcagta atatagtcaa 240
gcaagtttgt tccaagtgac ccattgagct gtgtatgcat ttttgtttat ttcaataaaa 300
tatatttgta ttatttgtcc ttcatactat ccattccatac cacactatct tctgtatcag 360
gtagtctaat agaaatatac ctgttttggt ctaaaaaaan nnnn 404

<210> 2362

<211> 561

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (426)

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<220>

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<222> (522)

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<222> (526)

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<220>

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<222> (534)

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<220>

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<222> (549)

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<220>

<221> misc feature

<222> (558)

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aactaccacg atgtgccttt ctgaatatta cccaattact ccaggaagtg agcataaata 120
taactgccat tctttattaa cattttatgc ctatgccatt ttcaactagt tatgcggtga 180
ctaatttttag ttgttttaggc cccaagtact atatttgaat aatattccat gtttttaaca 240
tgaagaaatg ctactagttc tagatcgcca gcggccgctc tagaggatcc aagcttacgt 300

1668

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acgcgtgcat ggcacgtcat agctcttcta tagtgtcacc taaattcaat tcactggccg 360
ncgtttttaca acgtcgtgac tgggaaaacc ctggcggttac ccaacttaat cgccttgacg 420
cacatncccc ttctgcagct ggcgtaatag cgaaaaagcc cgcaccgatc ggccttccaa 480
caagttgcgc agcctgaatg gggaatggga cgcgccctgt ancgngcat taancgccgg 540
gggtgtggng ggtaccnca a 561
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<210> 2363

<211> 513

<212> DNA

<213> Homo sapiens

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<220>

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<222> (331)

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<220>

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<222> (332)

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<222> (333)

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<220>

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<222> (334)

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<220>

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<220>

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<222> (337)

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<220>

<221> misc feature

<222> (338)

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1669

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<220>
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<220>
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<222> (499)
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<220>
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<223> n equals a,t,g, or c

<220>
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<400> 2363
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cacctcgtga gtctctggaa agcagggctc gcctctgaat acagaggact tgggtcctgc 120
cggaggatgc ttggccagtg ggtgctggca cgtgagcagc ccccggggag tcagagtggg 180
gctgcagcga aggccgtggt ggtcgagggt aggggtgggtg ccaggtcttg ttgccgcagt 240
gaggattctg gggttaccct aagagccacc acattcaggc actcaagaaa aagcacgtca 300

1671

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<220>
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<222> (321)
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<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
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<222> (325)
<223> n equals a,t,g, or c

<220>
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<222> (326)
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<220>
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<220>
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<220>
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1672

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<222> (364)

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<400> 2364

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ctgtatagct atagtggctc cttatgtata tttagattta cttacagctt gaaagtaatg 120
aacaacttgc atgaattagt ttnttgtacc acacatttta ttgttngtag gctactctcc 180
ctgaaaaaca attatttcag gaatgtattc attgtggtac ttttagaaat gattatttgt 240
gaagttaata ctcatattnt ttaccttatt tnatttttat tctgaataaa ataatatgga 300
gattcttacc ncaaannnna nncannaagt nanaannacc ctcccanaag ggcgggcgcg 360
ctanaagatc caagcttacg tacgcgtgca tgcaacgtca taactcttct atagtgtccc 420
taaattcaat tcnctgggcc gtcgttttac aacgtcntga ctgg 464
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<210> 2365

<211> 279

<212> DNA

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tgaggtggca tcntgcntg atnagggacc catnntgaat ttctgtgngg gatangagtt 180
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caggctnttt aaagtganga aattancaat gaaaaagca 279

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1675

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atccaggcca naaagtccac agtcaaattg ggaggggtat tcttnatgca ggagacccca 180
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ttt 243
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acgcctgcag gtaccgggtcc ggaattcccg ggctcgacca cgcgtccggt aaaacctgga 120
taatcagngt atgttgcacc agagggnagca tnggnntttt aactgcaaaa aatgatgg 178

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gcctgcaggt accggtccgg aattcccggg tgcacccacg cgtncgattn tatgnctttg 120
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attatatatt ttgtacagag antacaggcc ntngatnta ttaaaatcag nagatgntng 180
gcctaattct tagcantant naganntttg cgccagaact ttgttgngca cgctttntgn 240
gatcngcggt aaaaacctgc atagccaaca ttgnagatag aacttaaant agatattcaa 300
ataaatattt aattttttta attgatcttg tataatcana tgccccttna agcattatta 360
tagaagn                                           367
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gtccggagat antangtaat tgtattgatc tgcagangca tccatctctt ggattctnat 180
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1684

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1685

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ggtagcggtc cggaattccc gggtcgaccc acgcgtccgg cccagccgt gagattcca 180
ggagtttaca cttggtgatc agnactgaac acagaccacc aaccatggag ttggggctta 240
gctggattat ncttgntgct atgataaaaag gngtnaacg 279

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ggtcgaccca cgcgtccgaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaanaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaan gggngntant tt 262
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1687

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<222> (178)

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 tgcgctattg cgggcctnca gctcatcggt tcacntcacc cccctgcnc tccttggntc 180
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<210> 2375

<211> 289

<212> DNA

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ggaattcccg ggtcgaccca cgcgtccggn caggcctaaa gccattttat agctattggc 180
ctaattgtgt aactttttct ttcaaaatgt tttattataa tacttntgtc atttctttca 240
cttaatatgn caattgtcat aataaaaatt taaatttgaa aaaannana 289
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<210> 2376

<211> 177

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tatcaatanc aatgccacct gcttgaaggc tatatgtgac aagtnactag aggntca 177

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<222> (182)

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<222> (193)

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<400> 2377

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gaccacgcg tccgtgntaa ggctgctagc cacctgtttt gctaganaca ggncgaccta 180
cnttacttga gtnccag                                     197
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<211> 388

<212> DNA

<213> Homo sapiens

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gactcactat aggnaaagct gttacgcctg cangtaccgg tccggaattc ccggnctcgac 120
ccacgcgtcc gcctttgggg tacataaaat gtcgggttct ctgaattttt tatcgaattt 180
agaatgtctg ctacatttat ttaacttctg caaatgctta aaatgaaaac attttggaan 240
tgcgaggatt tttgtcaagc ggattgntct cttcatatat taaatgttta cttnatatct 300
ttaatccgaa acattaaaat agcattgaag aggcattgatt ttcaagatta agngngctat 360
gnantaggaa tacgctttta aagaacga 388
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<211> 395

<212> DNA

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1693

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tcctttcant tatttaata aataactgnt gtgtacaaaa aaaaaaaaaa agggcggccg 120
ctctagagga tccaagctta cgtacgcgtg catgcgacgt catagctctt ctatagtgtc 180
acctaaattc aattcactgg ccgtcgtttt acaacgtcgt gactgggaaa accctggcgt 240
taccgaactt aatgcgcttg cagcacatnc ccctttcgcc agctggcgta atagcgaaga 300
ggcccgnacc gatcgccctt cccaacagtt gcgcagcctg aatggcgaat gggacgcgcc 360
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1694

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caagcttacg tacgcgtgca tgcgacgnca tagctcttct atagtgtcac ctaaattcaa 180
ttcactggcc gtcgttttac aacgtcgtga ctgggaaaac cctggcggtta cccaacttaa 240
tngccttgca gnacatcccc ctttcgncag ctggcgtaat agcgaagagg cccgcaccga 300
tcgccctttc caacagttgc gcagcctgaa tggcgaatgg gacgcgccct gtagcggcgc 360
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ttttacaacg tcgtgactgg gaaaaccctg gcgttaccca acttaggggg ncgggcagca 180
cancccccnt tcgccagctg gcggaagagc gaagaggngc cgcaccgatc gccctngcca 240
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1698

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aacgtcgtga ctgggaaaac cctggcggtta cccaacttaa tcgccttgca gcacatcccc 180
ctttgccag ctggcgtaat agcnaaaagg cccgcaccga tcgcccttnc caacagttgc 240
gcagcctgaa tgggcnaatg gggacgcgcc ctgtaaccgg ggcattaagc ncggcggggtt 300
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<212> DNA

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1700

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1702

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tatagtgnca cctaaattca attcactggc cgtngtttta caacgtngtn actgggaaaa 180
ccctggcggt acccaacnta atcg 204

<210> 2385
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1703

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agaggatttt ctctgatttt attttctttg tttctgactc taataattag ttggaaactc 180
atataaaatg agctttccta aattaaatct attttaaata aaggttatta ctattaaaaa 240
aaaaaaaaaa aagggcggcc gctctagagg atccaagctt acgtacgctg gcatgcgacg 300
tcatagctct tctatagtgt cacctaaatt caattcactg gccgtcgttt tacaacgtcg 360
tgactgggaa aaccctggcg ttacccaact taatcgctt gcagcacatc cccctttcgc 420
cagctggccg taatagcgaa gaggccgca ccgatcgccc ttccaacag ttgcgcagcc 480
tgaatggcga atgggacgcg ccctntaacc ngcgattna acnccgcggg gtngttgtgg 540
gtta
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<211> 212

<212> DNA

<213> Homo sapiens

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ggtcgcggaat tcccgggtcg acccacgcgt ccgcccagct gctccgctca gaggcttttc 120
ctctccactt cctgttcaca cagggggggg cggaagtgg agggaggaag ttgggggggag 180
gcgtgtaggg gggaccatt gnntgnnngg aa 212

<210> 2387
<211> 145
<212> DNA
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1705

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cgacgtcata actcttctnt tgtgtcncct aaatncaatt cactggccgt cgttttacaa 120
cgtcgtgact gggaaaaccc aangn 145

<210> 2388
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<212> DNA
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1706

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aattcaattc actggccgtc gttttacaac gtcctgactg gganancaaa aacnnaagaa 120
attgnaaggt ccggcgg 137

<210> 2389
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1707

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gcgacgtcat agctcttcta tagtgtcacc taaatncaat tcaactggccg tcgtttntaca 120
acgtcgtgac tgggaaaacc caagggngag ctgtggatcn na 162

<210> 2390
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<212> DNA
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1708

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gcgacgtcat agctcttcta tagtgcacc taaattcaat tcactggccg tcgttttaca 120
acgtcgtgac tgggaacccc aaaagnnggn tnnnt 155

<210> 2391

<211> 161

<212> DNA

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<400> 2391

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ttcactggcc gtcgttttac aacgtcgtga ctgggaaaac ntntnaaaga gttgtaaaag 120
aggccntgaa ttgaatttag tganatatag aagactatga t 161

<210> 2392

<211> 480

<212> DNA

1709

<213> Homo sapiens

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attctagcac aacaagatga aattatggaa tacaaaagtg gtccttccc atgtgcagtc 120
cctgtcccc cccgccagtc ctccacaccc aaactgtttc tgattggctt ttagcttttt 180
gttggttttt ttttccttct aacacttgta tttggaggct cttctgtgat tttgagaagt 240
atactcttga gtgtttaata aagttttttt ccaaaaaaaaa aaaaaaaggc cgggccgntc 300
tagaggatcc aagcttacgt acgccgtgca tgcgacgtat aactctttat agnggcacct 360
aaattcaatt cactgggccc gtcgtttaca cgnctgact gggaaaaccc tggngttacc 420
caacttaanc gccttgagn aaatccccct tttgccaatt ggggtataac caaaaaggcc 480
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<211> 105

<212> DNA

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1710

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ccctggcggtt ncccaactta atcgcttgcc agcacatccc ccttt 105

<210> 2394
<211> 476
<212> DNA
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1711

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1712

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1713

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<222> (410)

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<222> (436)

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<400> 2394

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cgcgggagcg ncaggcgcgg tccgagggcn ccagccncgg tggcagncgt gagacgccat 180
ccaagcggag cgcgcgagatc ggcccgcgca ngcctccta ctacgcttgg tcgncgcccg 240
gcanctacaa ggccggnctcg tcgcaggacg accaggagga cgcggtgcgac gacgcgctgt 300
cgcnctacag cnagctggag ctgaccgcgn gtngtccta tcgtggccgc tctanaggat 360
ccaagcttac gtacgcgtgc atgcgacgtc atagctcttc tatagnngcn cctaaatnca 420
attcactggc cgtcgnttta caacgctcgt actgggaaaa ccctgggggtt acccaa 476
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<210> 2395

<211> 485

<212> DNA

<213> Homo sapiens

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1714

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1715

<400> 2395

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gctgagatct gttactcat tataggttta atttggtggt tcctagtttt gtacaagcag 120
aatantaaca ttttaagtca cttaatgaac agttcaactt aaaagacaaa ttcagtcatt 180
gagttactag catttaaaaa aaacttttat actataaacc catgttagta taaagtgtaa 240
atgtaacaat aaaatccagc aaagtaaaaa aananaaaaa gggcggccgc tctagaggat 300
ccaagcttac gtacgcgtgc atgcgacgtc atancctctt tatagtgtca cctaaatnca 360
attcactggc cggngnnttt acaaccgtcg tgactgggaa aaaccctggc gttacccaac 420
ttaatcgnc ttcgcnngcac atccccctt ttcggcagct ggcgtaaatn gcgaaagaag 480
gcncg 485
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<211> 234

<212> DNA

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<222> (26)

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<222> (66)

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1716

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ggcggntgtg gtggatacgc gcagcgtgac cgctacactt gccagcnccc tacgcccgtc 120
cctttngctt tacttccctt cctttctcgc cacgttcagc cggctttccc cgncaaagct 180
tntaaatcgg ngggcttccc tttagggggt cccgatttta gnggcctttt acgg 234

<210> 2397
<211> 334
<212> DNA
<213> Homo sapiens

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<220>
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1717

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<220>
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<222> (312)
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<400> 2397

1718

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ctgacgtcat agctcttcta tagtgtcacc taaattcaat tcactggccg tngttttaca 120
acgtcgtgac tgggaaaacc ctggcggttac ccaacttaat cgccttgacag cacatncccc 180
tttcgccagc tggngtaata gcgaagaggc cgcacccgat cgcacttccc aacagttgcg 240
cagcctgaat ggcgaaatggg acgcgccctg tagcggcgca ttaagngcgg cgggtgtggt 300
ggttacgcgc ancgngacng ctacacttgn cagt 334
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<210> 2398

<211> 306

<212> DNA

<213> Homo sapiens

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<220>

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<220>

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<222> (24)

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<220>

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<222> (246)

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<220>

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<220>

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1719

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atcccccttt cgccagctgg cgtaatagcg aagaggcccg caccgatcgc ccttcccaac 180
agttgcgcag ctgaatggcg aatgggacgc gccctgtagc ggcgcaataa gcgcggcgagg 240
tgtggnggta ccncaacgt gaccgtacac ttggcnagn cctaacggc ccggttcttt 300
tngctt 306

<210> 2399
<211> 502
<212> DNA
<213> Homo sapiens

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1720

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<220>

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<222> (461)

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<400> 2399

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ttatctggaa aattttgtat gagttcttga ataaaacttg ggaacaaaaa aaaaaaaaaa 120
aaaanaaagg gcggccgctc tagaggatcc aagcttacgt acgcgtgcat gcgacgtcat 180
agctcttcta tagtgnccacc taaattcaat tcaactggcg tcgttttaca acgtcgtgac 240
tgggaaaacc ctggcggttac ccaacttaat cgccttgag caccatcccc ttccgcccagc 300
tggcgtaata gcgaagaggc ccgcaccgat cgcccttccc aacagttgag cagcctgaat 360
ggcgaatggg acgcgccttg tagcggcgca ttaagcgagg cgggtgtggt gggtacnccg 420
cagcgtgacc cgctacactt gccagngccc taccgccccg ntccttcgct ttcttccttt 480
cctttntngc caggttcgcc cg                                     502
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<210> 2400

<211> 327

<212> DNA

<213> Homo sapiens

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<220>

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<220>

<221> misc feature

<222> (13)

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<220>

<221> misc feature

1721

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<220>
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 acatccccct ttcgccagct ggcgtaatag cgaagaggcc cgcaccgacg gcccttccca 120
 acagttgcgc ancctgaatg gcgaatggga cgcgcctgt agcggcgcat taagcgcggc 180
 gggngtggtg ggtacgcgca gcgngaccgc tacacttgca gcgcctagcg ccgctctttc 240
 gcttcttctc tctttctcgc acgtcggcgg ttttcccgtn agctctaacg gggtctcctta 300
 aggttcgatt aaggcttacg gacctcg 327

<210> 2401
 <211> 344
 <212> DNA
 <213> Homo sapiens

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<220>
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 <222> (38)
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1722

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<220>

1723

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<220>
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<222> (229)
<223> n equals a,t,g, or c

<220>
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<220>
<221> misc feature

1724

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<220>
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<222> (315)
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<220>
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<222> (328)
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ccatgggtttt caatacgttc aatgttctac actggcaaag aattnatgac cagtctctcc 120
catatcacaa catcacttat ncctgatttc acctanaaan gactcnattc tttgtctcat 180
gtctntncac cacatnatnt ccntnnngtn atccaatatg ccncatnang acnaattcct 240
tcctgtcaca atttgatacc cctccggcat actctatctt ggggaaaacg tcaganacaa 300
tcctgactcc gtctnacnt anaccacnct cttggactct tttg 344

<210> 2402
<211> 444
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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1725

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<222> (249)
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<220>
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<220>
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<220>
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<222> (419)
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<220>
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<222> (433)
<223> n equals a,t,g, or c

<220>
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<222> (435)
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<400> 2402
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cgacgcgtct ctttggacgc caccccaagg ctgtccctgg acgcagncgt cccagagcc 120
ccggaaccca ccagtgcctt ggacggnggt cccagcaact ttggagctgg ccgcagtgtg 180
ccaggggtctc tctgtgtctc cagagccctg tctgtcgtg ggagctccat ctctcctgcc 240
ccacncatna tgccagagac tgcagcctca gaccnnnggg angtgctgga gccacagtgc 300

1726

agaggtggtg cccaactcag aggaccaggg accgggcgcc gccttcagc tcagtgaanc 360
aagccctacc cagagctcan gcctgcagtt cagtggctgt cctgaacttt ggcaagaana 420
tctggagggg gcncnactgg gcat 444

<210> 2403

<211> 522

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (30)

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<220>

<221> misc feature

<222> (37)

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<220>

<221> misc feature

<222> (476)

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<220>

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<222> (501)

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<220>

<221> misc feature

<222> (509)

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<220>

<221> misc feature

<222> (516)

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<400> 2403

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aaagaggagc cagagatga ggaggaagag gccaaagatga aggctcctcc caaagcagcc 120
aggaagactc caggcctccc gaaggatgta tctgtggcag agctgctgag ggagctgagc 180
ctcaccaagg aagaggaact gctgtttctg cagctgccag acaccctccc tggccagcca 240
cccacccagg acatcaagcc tatcaagaca gaggtgcagg gcgaggacgg acaggtggtg 300
ctcatcaagc aggagaaaga ccgagaagcc aaattggcag agaatgcttg taccctggct 360

1727

gacctgacag agggtcaggt tggcaagcta ctcattccgca agtctggaag ggtgcaactc 420
cttttgggca aggtgactct ggacgttgac catgggaact gcctgctcct tncatgnagga 480
gctgggtgtcc gtgggccttg nagacagtnt gacatntgag at 522

<210> 2404
<211> 168
<212> DNA
<213> Homo sapiens

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<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (161)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (166)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<400> 2404
ggatcgctgc agcgaggggc tggcgggctaa accgtgggtt gagccaggct gccctcctgc 60
tgctgcggca gcctgggggt cggggactgg ctagatctgt gactacctgg gccccaggcg 120
gttttcccaa aggggattan ggatgtaaag gctatcttca nantgngn 168

<210> 2405
<211> 574
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (450)
<223> n equals a,t,g, or c

<220>
<221> misc feature

1728

<222> (463)
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<220>
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<222> (467)
<223> n equals a,t,g, or c

<220>
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<222> (504)
<223> n equals a,t,g, or c

<220>
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<222> (513)
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<220>
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<222> (521)
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<220>
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<222> (568)
<223> n equals a,t,g, or c

<400> 2405
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tgactctcca tctgtgagaa agacacactg cagtggaagg aaacacaaag agaattgtgaa 120
agactattac ctccctactcc attctctgct cctcctcctg caggggcgat gataccacct 180
ccccccagcc ttccgggtcc tcctcgccct ggtatgatgc cagcacccca tatggggggc 240
cctcccatga tgccaatgat gggccctcct cctcctggga tgatgccagt gggacctgct 300
cctggaatga ggccgccatg ggaggccata tgccaatgat gcctggggccc ccaatgatga 360
gacctcctgc ccgtcccatg atggtgcccc ctgggccgga atgactcgac cagacagata 420
aggatagagg ggaggcctta ttggatcggn ttatattacc tgnctgntta ccaggagatc 480
atgctgctgg gatactgagt tttntaaaca gcntanggaa nacttggtcc ccttgtccta 540
tgaaaagaga atagtttttg aggggaanaa atgg 574

<210> 2406
<211> 483
<212> DNA
<213> Homo sapiens

<220>

1729

<221> misc feature
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<223> n equals a,t,g, or c

<220>
<221> misc feature
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<220>
<221> misc feature
<222> (469)
<223> n equals a,t,g, or c

<220>
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<222> (483)
<223> n equals a,t,g, or c

<400> 2406
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ttacctccgc tgaacctaga gcttcagacg ccctatggcg tccgcctcga cccaaccggc 120
ggccttgagc gctgagcaag caaagggtggc cctcgcggag gtgatccagg cgttctccgc 180
cccggagaat gcagtgcgca tggacgaggc tcgggataac gcctgcaacg acatgggtgt 240
ccttaagttt gctcgcttgg tcaagtccta cgaagcccag gatcctgaga tcgccagcct 300
gtcaggcaag ctgaaggcgc tgtttctgcc gcccatgacc ctgccacccc atgggcctgc 360
tgctggtggc agcgtggccg cctcctgaga gttggccctc ccttggtgcca ctgccagggg 420
aggaaaggcc ttgatgttcc agacaataat naatgncct gtgacttana aaaaaaaaaa 480
aan 483

<210> 2407
<211> 503
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (325)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<220>

WO 01/22920

1730

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (454)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (487)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (488)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<400> 2407

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cccacgcgtc cgggcagaca tcaatacaaa atgggcagcc acacgatggg ccaagaagat 60
tgaagccaga gaaaggaaag ccaagatgac agattttgat cgtttttaaag ttatgaaggc 120
aaagaaaatg aggaacagaa taatcaagaa tgaagttaag aagcttcaaa aggcagctct 180
cctgaaagct tctcccaaaa aagcacctgg tactaagggt actgctgctg ctgctgctgc 240
tgctgctgct gctgctgcta aagttccagc aaaaaagatc accgccgcna attaaaaagc 300
tcccacccaa aaggttcctg cccanaaagc cacaggccan aaagcacgcc tgctccaaaa 360
ctcanaaagg tcaaaaactc caccagaaa cactctccaa agctctggca aaaaacatat 420
tgcatacata aattataagt cttttgactg ttanaatgta aaaaaaaaaa ggggcctcta 480
aagacanntc ttccttntca ntc 503

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<210> 2408

<211> 632

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

1731

<221> misc feature
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<223> n equals a,t,g, or c

<220>
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<222> (40)
<223> n equals a,t,g, or c

<220>
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<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (366)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature

1732

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (463)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (584)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (593)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (595)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (621)

<223> n equals a,t,g, or c

<400> 2408

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aacgccncaa taagctcgct tggngcccca ggtaccggtn cggaattccc gggtcgaccc 60
acgcgtccgc tcatggaaaa ggagttccct ggatttttgg aaaatcaaaa agaccctctg 120
gctgtggaca aaataatgaa ggacctggac cagtgtagag atggcaaagt gggcttccag 180
agcttctttt ccctaattgc gggcctcacc attgcatgca atgactattt tgtagtacac 240
atgaagcaga agggaaagaa gtaggcagaa atgagcagtt cgctcctccc tgataagagt 300
tgtcccaaag ggtcgcttaa ggaatctgcc ccacagnttn ccccatanaa agganttang 360
gaccnnaanc aggacacttn agcaaatgta aaaataaaat ctaactctca tttgacaagc 420
agagaaagaa aagttaaata ccagataagc ttttgatttt tgnattgggt gcataccctt 480
gccctcaata aataaagttc ttttttagtt ccaaaaaana aaaaaaaggg cggccgctct 540
aaaggatcca agcttacgta cgcgtgcatg cgacgtnata gctnttctat agngncacct 600
aaattcaatt cactggccgg nggtttacaa cg 632

```

1733

<210> 2409
<211> 320
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (84)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (137)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c

<220>

1734

<221> misc feature
 <222> (196)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (213)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (289)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (294)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (306)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (308)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (319)
 <223> n equals a,t,g, or c

<400> 2409
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 cgcttttcgag cgcntttccc ctgntgacat cgacactcat acagngaaag tatgaccctt 120
 ccctgaagcc cctgncngnt tcctatgac aagcaacttc cctgaggatc ctcaacaatg 180
 gtcattgcttt caacngggag ttggatgact ctnaggacaa agcagtgtc aagggaggac 240
 ccctggatgg cactaacaga tggattaagc ttcactttaa ctgggggttna cttnatggac 300
 aaaggntnaa aacatactng 320

<210> 2410
 <211> 333
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (39)
 <223> n equals a,t,g, or c

1735

<220>
<221> misc feature
<222> (76)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (82)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (112)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (171)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (177)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (247)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (290)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

1736

<400> 2410

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gagctcccgct ctggcctttc caaaggccac agaggaggna aaagcatcta agcctcacca 60
tgaatggccc agtggnaccc antttgcccg gacaggggac cccaatagca angctctgcc 120
tccttggccc caattcaacc aggcggaaac aatttctgga aatcaaccca ntgccanggg 180
ccggacaaaa tttcagggag gcctggatgc tattctggtc aaaaaccctc cccaacaaaa 240
tacaacntgg ccccanancc aaaaaaacg gaagggccct ggagggactn ctgaaggcag 300
gcctaaanct ttcttggggg tggggcaaac caa 333
```

<210> 2411

<211> 652

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (607)

<223> n equals a,t,g, or c

<400> 2411

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gggcttcaac gacgagctgg aagccttcaa ggagcgtgtg cggggccgtg ccaagctgcg 60
catcgagaag gccatgaagg agtacgagga ggaggagcgc aagaagcggc tcggccccgg 120
cggcctggac ccgctcgagg tctacgaatc cctccctgag gaactccaga agtgcttcga 180
tgtgaaggac gtgcagatgc tgcaggacgc catcagcaag atggacccca ccgacgcaaa 240
gtaccacatg cagcgtctga ttgactctgg cctctgggtc cccaactcta aggccaagcg 300
aaggccaagg agggagagga ggcaggtcct ggggacccat tactggaagc tgttcccaag 360
acgggcgatg agaaggatgt caagtgtgtg acctgccccca gctaccaccg tcacctgctt 420
ccaggccctt atgtgcccct tttcagaaaa cagatagatg ccatctcgcc cgctcctgac 480
ttctctactt gcgctgctcg gccagcctg gggggcccgc cagcctcctg gcttttctact 540
gtttcactct cagcgccatt aagtctctgc tttagtcaag gggcttctact gctgaagccc 600
catacantat gcaaggccgg gtcggggagg cagagtacca gctgtctaca gt 652
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<210> 2412

<211> 532

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (489)

<223> n equals a,t,g, or c

<400> 2412

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aggctttatc atcgacgata gcgtacttta tagcgggtgcc agcctgaacg atgtttacct 60
gcatcagcac gataaatatc gctacgaccg ttatcatctg atccgtaacc gtaagatgtc 120
agacattatg tttgaatggg ttacacagaa tattatgaat ggccgcggcg ttaatcgtct 180
ggatgatgtt aatcggccaa aaagcccga aatcaagaac gatattcgtc tgttccgcca 240
ggagctgcgt gatgccgctt atcattttcca gggcgatgcc gacaacgatc agctttctgt 300
aacgccgcta gtggggctgg ggaaatcgag tctgttgaac aagaccattt tccatcttat 360
gccttgtgcc gagcagaaac taaccatctg tacgccatac ttcaacctgc cagcaatcct 420
tgtgcgcaat attatccagt tgctgcgcga agggaaaaag gtcgaaatta ttgttggtga 480
taaaaccng aatgacttct acattccgga agatgaacct ttcaagataa tt 532
```

1737

<210> 2413
<211> 444
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (288)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

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<222> (381)
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<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (439)
<223> n equals a,t,g, or c

1738

<400> 2413

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ggcacgagct cgtnCGtttg gnaggggggt gtnccctcct tcgatgcatt ccagccttgg 60
actcattgac tccagctaata gaagatcaaa aaattgggtat agaaattatt aaaagaacac 120
tcaaaattcc agcaatgacc attgctaaga atgcagggtgt tgaaggatct ttgatagttg 180
agaaaattat gcaaagttcc tcagaagttg gttatgatgc tatggctgga gattttgtga 240
aatatgggtgg aaaaaggga tcattgaccc aacaaagggt gtgaaganc tctttatttg 300
ggtgctgctg gtgtgggccc ctctgtttaa cctacagcag aagttttag gtccccagna 360
attcccaaag aaggagaagg ncccctggaa tgggtgcaat gggtnnga tgggaggttn 420
gtatttgga ggtggcatnt tcct 444
```

<210> 2414

<211> 318

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (136)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<220>

1739

<221> misc feature
<222> (174)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (214)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (245)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (254)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (273)
<223> n equals a,t,g, or c

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<221> misc feature
<222> (315)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (318)
<223> n equals a,t,g, or c

<400> 2414
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gccctcagca gcttggcacc cagactacan ctgaacgtga atcacaagcc agcaacacca 120
agggtgacaag agattngccc aaatcttgtg acaaaactac acatgcccac cgnnccagac 180
ctgaactcct ggggggaccg cagcttctct tccnccaaaa cccaagacac gctatgatct 240
cccgnccct gagncacatg cgtggtggtg acngtagcca cgaagaccct gaggcaagtc 300
aactggacgt ggacngcn 318

<210> 2415
<211> 406
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

1740

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (276)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (326)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c

1741

<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (406)

<223> n equals a,t,g, or c

<400> 2415

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nncgccgggt ttccccgggg aaaaattttc ccccgggggg ggttcccgga acccccaaaa 60
ccggccggtt ctccggggcn cccggggggg gaaaaagggg gccttcntta aggaaaaaaa 120
aagggggggg ccngcccaa ttggggccgn aatcccaaaa accccaattc cggggccaag 180
gccccggaat ttccccgtgg gttcttttgg gaatccaacc ggggggggtgg ggggaaaggg 240
gggaaacccc gtcggggccg tcnccttgcc gtgggngggc cccattgggg ggtggaagaa 300
ccacctcaa gttactggag acctanagtc cagaatgctt gtagtgagcc aagtcagtgt 360
tctaagtatt tatttaaaac aaaagaatcn ccgttaaaan acatnn 406
```

<210> 2416

<211> 648

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (454)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1742

<222> (456)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (465)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (581)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (583)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (586)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (624)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (647)
<223> n equals a,t,g, or c

<400> 2416
ggagttcagc tatgaactct ccaaagtgga agggaaaaca gggacccctg agaagcccct 60
ctcagacctt ggcctcctat cctatcgaag ctactggtcc cagaccatcc tggagatcct 120
gatggggctg aagtcggaga gcggggagag gccacagatc accatcaatg agattagtga 180
aatcaccagc atcaagaagg aggatgtcat ctccactctg cagtacctca atctcatcaa 240
ctactacaag ggccagtaca tcctcacact gtcagaggac atcgtggatg gccatgagcg 300
ggccatgctc aagcggcttc tgcggatccg acttcaagtg tctgccttna ttcccaggga 360
ctggaanaag aaggggggaa ntggtgacca gacactggcc actggaattg cccaagacgg 420

1743

```

gnagcagggga cttggggggt tgaatagccc aatncnggcn cccanttgga agnttcccac 480
aaaagcaact tttaagggga aaatgggggt tgagggacaa gttcaaaaaa gggataggac 540
cagggccttg gcagggggcc cactgggtg gccaacacc nangcnaagc ttccgggctt 600
aagaccaact ttcaaaggtc aagntgggcc caaggcccaa ggcttcnt 648

```

<210> 2417

<211> 481

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (478)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (481)

<223> n equals a,t,g, or c

<400> 2417

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ggctacacta gagcagagta cgagtctgag gcggagggag taatggcagg acaagcggtt 60
agaaagtttc ttccactctt tgaccgagta ttggttgaaa ggagtgcgtc tgaaactgta 120
accaaaggag gcattatgct tccagaaaaa tctcaaggaa aagtattgca agcaacagta 180
gtcgtgttg gatcgggttc taaaggaaag ggtggagaga ttcaaccagt tagcgtgaaa 240
gttggagata aagttcttct cccagaatat ggaggcccaa agtagttcta gatgacaagg 300
attatttcct atttanagat ggtgacattc ttggaaagta cgtagactga aataagtcac 360
tattgaaatg gcatcaacat gatgctgcc attccactga agttctgaaa tctttcgtca 420
tgtaaataat ttccatattt ctcttttata ataaactaat gataactaat gaaaaaanan 480
n 481

```

<210> 2418

<211> 336

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

1744

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<400> 2418

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ggttcggat  cgcccgtgcc  ggtagcgccg  ctgccaccgn  tcaccatggg  cccgggtcct  60
cggctgctgc  tacctctcgt  gctttgcgtg  gggctcggcg  cacttggtgt  ttcttcgggg  120
gccgagggct  tccgcaagcg  agggccctcg  gtgacggcca  aggtcttctt  tgatgtgagg  180
attggagaca  aagatgttgg  cagaattgtg  attggcctct  ttggaaaagt  tgtgccaag   240
acagtggaaa  attttggtgc  tctagcaaca  ggagagaaaag  gatatggata  taaaggaagc  300
aagttttcat  cgtgtcatca  aggatttcat  gattnt      336
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<210> 2419

<211> 410

<212> DNA

<213> Homo sapiens

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1745

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1746

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<220>
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 <223> n equals a,t,g, or c

<220>
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 tgacctccgg cctaaccatg tgattncact tccactccat aacantcctc anannangcc 120
 tactaaccaa nacactaanc atataccaat gatggcgcca tgtatcacga gaaagcacat 180
 accaaggcca ccacacacca cctgtccaaa aaggcctncc atacgggata atcntattta 240
 tnaccncana agtttttttc ttencaggat ttttctganc cttttaccac tcnancctag 300
 cccctacccc ccaattanga aggcaactncc ccccaanatg catcaccccg ctaaattcccc 360
 tagaatccca ctctaaaca catccgtatt actcgcatca ngaatatcan 410

<210> 2420
 <211> 536
 <212> DNA
 <213> Homo sapiens

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<220>

1747

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<222> (169)
<223> n equals a,t,g, or c

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<220>
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<220>
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1748

<222> (461)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (468)

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<400> 2420

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cctaatagacc tccggcctan ccatgtgatt tcacttccac tccataacgc tcctcatact 120
aggcctacta accaacacac taaccatata ccaatgatgg cgcgatgtnn cagagaaaag 180
cacataccaa ggccaccaca caccacctgt ccaaaaaggc cttcgatacg ggataatcct 240
atattattacc tcanaaattt ttttcttcgc aggatttttc tgancctttt accactccag 300
cctagccctt acccccctaat taggaaggca ctggccccc ncaagcatca ccccgctgaa 360
tcccctaaaa tccactccta aacacatccg tatttatcac atcaagaatn tcaatcanct 420
gaactcacca taatctatta gaaacaccna aancaatnat nccagcangg ttattacatt 480
ttatggtctc tattttacct ctaaaactca aatattcaat ctcttcaca tttcca 536
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<211> 613

<212> DNA

<213> Homo sapiens

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<220>

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<222> (19)

<223> n equals a,t,g, or c

<220>

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<222> (20)

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<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (78)

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<220>

<221> misc feature

1749

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<220>
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<220>
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<220>
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 <222> (581)
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 ccccgggctg caggaaatncg gcacgaaatt tattacctca naagtttttt tcttcgcagg 120
 atttttctga gccttttacc actccagcct agcccctacc cccaattag gagggcactg 180
 gcccccaaca ggcatacacc cgctaaatcc cctaaaagtc ccactcctaa acacatccgt 240
 attactcgca tcaggagtat caatcacctg agctcaccat agtctaatan aaaacaaccg 300
 aaaccaaaata attcaagcac tgcttattac aattttactg ggtctctatt ttaccctcct 360
 acaagcctca nagtacttctg agtctccctt caccatttcc gacggcatct acggctcaac 420
 attttttgta gccacaggct tccaaggact tcacgtcatt attgggtcaa ctttcctcac 480
 tatctgcttc atccgccaac taatatttca ctttacatcc aaacatcact ttgggttcna 540
 aaccgccgcc tgatactggc attttgtaaa tgtggtttga ntatttctgt atgtctccat 600
 ctatggatga agg 613

<210> 2422
 <211> 391
 <212> DNA
 <213> Homo sapiens

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<220>
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 <223> n equals a,t,g, or c

1750

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<221> misc feature
<222> (339)
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<220>
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<222> (369)
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<220>
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<222> (387)
<223> n equals a,t,g, or c

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ttcactttcca ctccataacg ctctcatatc taggcctact aaccaacaca ctaaccatat 120
accaatgatg gcgcgatgta acacgagaaa gcacatacca aggccaccac acaccacctg 180
tccaaaaagg ccttcgatac gggataatcc tatattattac ctcagaagtt tttttcttcg 240
caggatTTTT ctgagccttt taccactcca gcctagcccc tcccccccaa ttaggaaggc 300
actggccccc aacangnatc accccgctta atccccctana atttccactt cctaaacaca 360
tccgttttna tcgcatccgg gatttttncct c 391

<210> 2423
<211> 459
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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1751

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<222> (246)
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<220>
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ggcgcatgag ctggaatcct angcacagct ctaagcctcc ttattcgagc cgagctgggc 120

1752

cagccangca accttctang taacgaacac atctacaacg ttatcgtcac agccatgcat 180
ttgttataat cttcttcata gtaataccat cataatcgga agntttggna actgactagt 240
cccctnataa tcggtgcccg atatgggggtt tccccgcata aacaaataac tctgaatctt 300
actcctctct cctaatectg gtcgatctgc tntntggagg cngacaggaa naggtgaaca 360
tctacncctt acaggaatat ccacctgaac ncgtaactac tctctcttnc taaagggttc 420
ncttttgggc tcattctcca cattcttaac ccgtacat 459

<210> 2424

<211> 747

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (544)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (548)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (568)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (573)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (642)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (688)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (695)

<223> n equals a,t,g, or c

1753

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<222> (712)
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<222> (723)
<223> n equals a,t,g, or c

<220>
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<222> (726)
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ttttccttat ctgcttccta gtctgtatg cccttttcct aacactcaca acaaaactaa 120
ctaataactaa catctcagac gctcaggaaa tagaaaccgt ctgaactatc ctgcccgccca 180
tcatectagt cctcatcgcc ctcccatccc tacgcaccc t tacataaca gacgagggtca 240
acgatccctc ccttaccatc aaatcaattg gccaccaatg gtactgaacc tacgagtaca 300
ccgactacgg cggactaatac ttcaactcct acatacttcc cccattattc ctagaaccag 360
gcgacctgcg actccttgac gttgacaatc gagtagtact cccgattgaa gccccattc 420
gtataataat tacatcacaa gacgtcttgc actcatgagc tgtcccatat taggcttaaa 480
aacagatgca attcccgac gtctaaacca aaccactttc accgctacac gaacggggggg 540
tatntacngt caatgctctg aaatctgntg gancaaacca cantttcatg cccatcgtcc 600
taagaattaa ttcccctaaa aatctttgaa attagggcgg tntttaccta tagcaccct 660
ctaccctct tgaacaaaa aaaaaanaa atccnagggg gggccggccc cnttcccccc 720
atntgntttt ttaaattccc ggggcgc 747

<210> 2425
<211> 535
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (494)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (503)
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1754

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<221> misc feature
<222> (507)
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<220>
<221> misc feature
<222> (514)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (527)
<223> n equals a,t,g, or c

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ttttccttat ctgcttcccta gtcctgtatg cccttttccct aacactcaca acaaaaactaa 120
ctaataactaa catctcagac gctcaggaaa tagaaaccgt ctgaactatc ctgcccgcga 180
tcactctagt cctcatcgcc ctcccatccc tacgcatact ttacataaca gacgagggtca 240
acgatccctc ccttaccatc aaatcaattg gccaccaatg gtactgaacc tacgagtaca 300
ccgactacgg gggactaate ttcaactcct acataacttcc cccattattc ctagaacagg 360
cgacctgcga ctcccttgacg ttgacaatcg aattantact cccgattgaa gcccccatc 420
gtataataat tacatcacca agaagtcttg gcctccatta aactttttcc cccacattta 480
gggcttttaa aaanaaaaat gcnattnccc cggnaacttt cttaaanccc aaacc 535

<210> 2426
<211> 563
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (523)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (556)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (557)
<223> n equals a,t,g, or c

1755

<220>

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<222> (558)

<223> n equals a,t,g, or c

<400> 2426

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catcgccctc ccatccctac gcatccttta cataacagac gaggtcaacg atccctccct 120
taccatcaaa tcaattggcc accaatggta ctgaacctac gagtacaccg actacggcgg 180
actaatcttc aactcctaca tacttcccc attattccta gaaccaggcg acctgcgact 240
ccttgacgtt gacaatcgag cagtactccc gattgaagcc cccattcgta taataattac 300
atcacaagac gtcttgact catgagctgt cccacatta ggcttaaaaa cagatgcaat 360
tcccggaagt ctaaaccaaa ccactttcac cgctacacga ccgggggtat actacgggtca 420
atgctctgaa atctgtggag caaaccacag tttcatgccc atcgtcctag aattaattcc 480
cctaaaaatc tttgaaatag ggnccgtatt taccctatag canccccctc aaccctcta 540
gagccaaaaa aaaaannnaa aaa 563
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<210> 2427

<211> 536

<212> DNA

<213> Homo sapiens

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<222> (6)

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<220>

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<222> (18)

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<222> (28)

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<220>

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<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (431)

<223> n equals a,t,g, or c

1756

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<222> (457)
<223> n equals a,t,g, or c

<220>
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<222> (475)
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<220>
<221> misc feature
<222> (486)
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<220>
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<222> (497)
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<220>
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<222> (535)
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tcccttacca tcaaatcaat tggccaccaa tggtagtgaa cctacgagta caccgactac 120
ggcggactaa tcttcaactc ctacatactt cccccattat tcctagaacc aggcgacctg 180
cgactccttg acgttgacaa tcgagtagta ctcccgattg aagcccccat tcgtataata 240
attacatcac aagacgtctt gcactcatga gctgtcccca cattaggctt aaaaacagat 300
gcaattcccg ggacgtctaa accaaaccac tttcacccgt acacgaccgg ggggtatact 360
acgggtcaat gctctggaaa tctggtggga gcaaaccaca gtttcatggc ccatcgctct 420
agaattaatt nccccataaa atctttggaa taggggnccg tatttaccct atagnaaccc 480
ctctancccc tctagnggcc aaaaaaaaaa aaaaaactgg ggggggggccg ggaanc 536

<210> 2428
<211> 473
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (331)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c

1757

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (457)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c

<400> 2428
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tgtttagaga taaatattat ttgcaacaat attcatctca tctcaagaaa cgctcctata 120
gggtatggag aatttaaagg acctgtagggt tatgatgatt ataacgaaat aaccaaagca 180
ggatttcaat gaccagccca caaaagtatc ctgtgtacta ctggttggga ggtggagggg 240
ggttgttctt aagtaagaac ccctaacatg taactctgtg gtttttatgt ttcattaact 300
atttaattcta ccaatatgga actagggttca ntaagaagaa ngacagcnta gatccttaca 360
tatacacacc ctttggaact ggacccaaaa ctgcattggc atgagggtttt gctctcatga 420
acntgaaact tgnctaatc agaggccttt canaactctt cctttnaacc ttg 473

<210> 2429
<211> 315
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

1758

<220>

<221> misc feature

<222> (315)

<223> n equals a,t,g, or c

<400> 2429

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catggccagg gatgtgcaga acaccttcta cgacatcggtg gctgagctcg gggccatgga 120
gcacgcgcag gcggtggact acatcaagaa actgatgacc aagggccgct actccctgga 180
cgtgtggagc taggggcctg cctgccccac ccacccaca gactccggcc tgtaatcagc 240
tctcctggct ccctcccgta gtctcctggg tgtgtttggc ttggccttgg catgggcgca 300
ggcccagtga caaan 315
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<210> 2430

<211> 526

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

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<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

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<222> (310)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<220>

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<222> (336)

1759

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (369)

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<222> (375)

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<222> (387)

<223> n equals a,t,g, or c

<220>

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<222> (401)

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<222> (414)

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<220>

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<222> (419)

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<220>

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<222> (461)

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<220>

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<222> (462)

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<220>

<221> misc feature

<222> (488)

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<220>

<221> misc feature

<222> (518)

<223> n equals a,t,g, or c

1760

<220>

<221> misc feature

<222> (523)

<223> n equals a,t,g, or c

<400> 2430

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tttnccctcca gagcttcatg acngagccaa anngccatac acagaggcag tcattctatga 60
gattcagaga ttttccgacc ttctcccat ggggtgtgcc cacattgtca cccaacacac 120
cagcttccga gggtagatca tccccaaagga cacagaagta tttctcatcc tgagcactgc 180
tctccatgac ccacactact ttgaaaaacc agacgccttc aatcctgacc actttctgga 240
tgccaatggg gcaactgaaa agactgaagc ttttatcccc ttctccttag ggaagcggat 300
ttgtcttggg gaaggcatcg ccgtgcgga anttgntcct ctcttcacca ccaccttca 360
gaacttctnc atggncagcc ccgtggnccc agaagacatc natctgacac ccnagaang 420
tggtgtgggg caaaaaaacc cccaacata ccagaaccgc nnttcctggc cccgctgaaa 480
gggcttangg gaaagggggg caaaaggaat tccagggnca atncaa 526
```

<210> 2431

<211> 513

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (353)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (371)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (407)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (448)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (461)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (490)

<223> n equals a,t,g, or c

1761

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (511)

<223> n equals a,t,g, or c

<400> 2431

```
gcttctccgc tccttctagg atctccgcct ggttcggccc gcctgcctcc actcctgcct 60
ctaccatgtc catcaggggtg acccagaagt cctacaaggt gtccacctct ggcccccg 120
ccttcagcag ccgctectac acgagtgggc ccggttcccg catcagctcc tcgagcttct 180
cccagagtggg caagcagcaa ctttcgcggt ggcctgggcg ggcggtatg gtggggccag 240
cggcatggga ggcacaccg gagttacggt aaccagagct gctgagcccc cttgtcctgg 300
aagtggaccc caacatcagg ccgtgcgcac ccaggagaag gagcagaatc aangaccctt 360
aacacaagtt ngcctcctta taaacaaggg aacggttctt ggaccanaat acaagatgct 420
tgagagacaa gtggaagcct cctgcagnac aagaagacgg ntcgaagcaa catggccaac 480
atgttcgaan agctacntta acaacttagg ngg 513
```

<210> 2432

<211> 641

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (467)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (552)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (569)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (587)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (632)

<223> n equals a,t,g, or c

1762

<220>
<221> misc feature
<222> (633)
<223> n equals a,t,g, or c

<400> 2432
gcgatcttgg ggagccacac agcccggggtc gcaggcacct ccccgccagc tctcccgtt 60
ctcgcacagc ttcccgacgc gtctgtgag ccccatggcc cacgccacgc tctccgccgc 120
ccccagcaat ccccggtctc tgcgggtggc gctgtgtctc ctgctcctgg tggccgccag 180
ccggcgcgca gcaggagcgt ccgtgggtcac tgaactgcgc tgccagtgtc tgcagacact 240
gcaggggaatt cacctcaaga acatccaaag tgtgaatgta aggtcccccg gacccccactg 300
cgcccaaacc gaagtcatac ccacactcaa gaatgggaag aaagcttgtc tcaacccccgc 360
atcccccatg gttcagaaaa tcatcgaaaa gatactgaac aaggggagca ccaactgaca 420
ggagagaagt aagaagctta tcagcgtatc attgacactt cctgcanggt ggtccctgcc 480
cttaccagag ctgaaaatga aaaagagaac agcagctttt ctagggacag ctggaaaagg 540
acttaatgtg tntgactatt tcttacgang gttctactta attatgnatt tatttttgaa 600
aagcttggat tttaatattt tacaatgctg gnnatttaaa g 641

<210> 2433
<211> 317
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (187)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (255)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (290)
<223> n equals a,t,g, or c

<220>
<221> misc feature

1763

<222> (313)

<223> n equals a,t,g, or c

<400> 2433

```

aggaactttc cggaatgaca attctgctga gatgtgccgg aagtgcagca cagggtgccc 60
cagaaggatg gtcaaggatc aggattgtac gccctggagt gacatcgagt gtgtccacaa 120
agaatcaggc aatggacata atatatgggt gatTTTTgtt gtgactttgg ttgttccgtt 180
gctgttngtg gctgtgctga ttgtctgggt ttgcacggc tcangttgtt gaagggaccc 240
caagtgcattg gacanggtgt gtttctggcg cttgggtctc ctangaaggn ctggggctga 300
agacaatgct canaacg                                     317

```

<210> 2434

<211> 407

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (356)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (397)

<223> n equals a,t,g, or c

<400> 2434

```

gctttattcc catcctgggt tccaactata acccaaagga atttgaaagt tgtattcagt 60
attatttgga aaacaattgg cttcaacatg agaaagctcc tacagaagaa gggaaaaaag 120
agctgctgtt cctaagtaac gcgaaccctc cgctgctgga gcggcactgt gcctacctct 180
aagccaagat cacagcatgt gaggaagaca gtggacatct gctttatgct ggaccagta 240
agatgaggaa gtcgggcagt acacaggaag aggagccagg cccttgtagc tatgggattg 300
gacaggactg cagttggctc tggacctgca ttaaaatggg tttcactgtg aatgcntgac 360
aataanatat tcccttgncc taaaacttta tatcanntta ttggatg                     407

```

<210> 2435

WO 01/22920

1764

<211> 315
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c

<220>
<221> misc feature

WO 01/22920

1765

<222> (259)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (263)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (273)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (296)

<223> n equals a,t,g, or c

<400> 2435

```

gtcnccgtcc cgggtccgga atncccggt cgacccacgc gtccgatcca ccanttatct 60
ttnaaaagcc tgccaagacc agcaaanggc cgggttcggt tnaggaagaa ctccttancc 120
naaccgaaac tgttgtgact gaatatctaa atagtggaaa tgcaaatgag gctgtcaatg 180
gtgtaagaga aatgagggct cctaaacact ttcttcctga gatgttaagc aaagtaatca 240
tcctgtcact agatanaanc gangaagata aanaaaaagc aagttctttg atcagnttac 300
tcaaacagga aggga                                     315

```

<210> 2436

<211> 226

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

1766

<220>
<221> misc feature
<222> (51)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (177)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (196)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (222)
<223> n equals a,t,g, or c

<400> 2436
ggcgcctctttt aatantggat cccccnggct gcatgaattc cgctcnanga ncactctttt 60
tattgtactc gtgaataatg atgaaggaga atggaatggc ccaccacctn aatgcaaaag 120
gaaaaatctc taacttccaa aggtcccacc agcagttcag aaaacctacc aacagtnaat 180
gttccaacta cagaangtct cncnacttc tcagaaagcc ancaca 226

<210> 2437
<211> 457
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c

1767

<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (357)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (424)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (431)
<223> n equals a,t,g, or c

<400> 2437
aagtatcagg tcctgcctct gaatgtgctc cttcccttc cagatcaaga tcacccacaa 60
gaaccagatg cccatgctca tgggcccacc ccccgcctcc accaatttct ttggcttctt 120
gagctaaggg ggacaccctt ggccctcaag ccagccttga acccacctcc ctgtccctgg 180
actctactcc cgaggctctg tacattgctg ccacatactc ctgccagctt gggggagtgt 240
tccttcaccc tcacagtatt tattatcctg caccaccttc actgttcccc atgcgcanac 300
acatacanac accccaaaac acntacattg gaaagtggct tcattgaata aaaggantgt 360
gtttnccttt ggggatctgc taagtaaggg gtaaattcnt tnttttaaaa cttcaatcct 420
taangaagta nattctccca gaagcaaaga aaaattc 457

<210> 2438

1769

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (73)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (81)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (128)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (133)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (161)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (176)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (180)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (186)

<223> n equals a,t,g, or c

1770

<220>

<221> misc feature

<222> (239)

<223> n equals a,t,g, or c

<400> 2439

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ccngatggct gaagaggggtg ngccggcgcc cctgcctcca gaggaagccc ctaacgccgc 60
atccctggcg ccnacccttg ngcccccggn cctcgagccc tttaatctga cttcggagcc 120
ctcggacnac gcnetggacc tcagcacttt cctccagcaa naccgggacg ctttcnaacn 180
gggacncccc gaactcccca aaaagaaacc gaaaaaccca caaagaaaac accaaggcng 240
taccgggggg c 251
```

<210> 2440

<211> 367

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (303)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (351)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (361)

<223> n equals a,t,g, or c

<400> 2440

```
gtggatgcac acctctgttc ataccaaagc tggctggcag tcactgctct ggagctaaag 60
gtggaaagaa gtctgatcag tcaaactgta gcctggaacc attactacag cagctttcaa 120
caagctacaa aacaatgccg gatgtgtgcc aagcttctaa tctgcttcct gcattgaggt 180
ctttaactg ttgtctacct tccagcttat agaaatctcc cacttatttg gaaaaaaaaa 240
atgtcttgtg gcaagcaaca aaaattggga ctccctgctc caaaaaacat gttgggatgg 300
ggnaattttt ctttaacagg gttgaaccn attgaaaaaa ccanccttct ngtttaattt 360
naagaaa 367
```

<210> 2441

<211> 322

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (176)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (198)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (219)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (226)

<223> n equals a,t,g, or c

1772

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (274)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<400> 2441
ggcagannaa agatggagat gagtttaata attcaattng ccagttattt cttgctttca 60
atatgctgat ggacaggcct ctggaggaag ccgtcaagat caanggggca nctttgaagt 120
accttcctag cataattaat gatgtcaaac ttgtatttga tcctgttgag ctcagngtgc 180
tcttctgcaa attcattnaa agcattcctg acaaccagnt gggttcngcan aaacttaact 240
gcatgaccaa gatagtagag agcactcttt ttcnacagtc agagtgcana gaagtgctgc 300
tgccactget gacggaccan ct 322

<210> 2442
<211> 365
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)

1773

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (346)

<223> n equals a,t,g, or c

<400> 2442

```
ggttgcggtc aagatggcgc tgggtggcttc tgtgcgagtc ccggcgcgcg ttctgctccg 60
cgcgggggcc cggctcccgg gcgcggccct cgggcggacg gagcgggcgg ccggcggcgg 120
agacggcgcg cggcgcttcg ggagccagcg ggtgctggtg gagccggacg cgggcgcagg 180
ggtcgctgtg atgaaattca agaaccccc agtgaacagc ctgagcctgg agtttctgac 240
ggagctggtc atcagcctga gaagctggag aatgacaaga gcttccgcgg tgtnattctg 300
acctcggacc gccgggtgtn ntctcggncc gctggacctg acgganatgt gtgggaagaa 360
ccccg                                     365
```

<210> 2443

<211> 560

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (511)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (544)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (549)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (554)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (560)

<223> n equals a,t,g, or c

1774

<400> 2443
ggacacccca gcaaaagtac cagcgcctac tgcattgaggt ccaagagctg acaactgaag 60
ttgaaaaaat caagacgaca gtgaaggagt cagccacaga ggagaagctg acccctgtgt 120
tgctgggctaa acagctggca gccctgaagc agcagctggg tgcttcccac ctggagaagc 180
tgctggggacc agatgctgca atcaacctta ccgaccccgga tggcgccctg gctaagcgcc 240
tactactgca gctggaagca acaaagaaca gcaaaggggg atcaggggga aaaaccactg 300
ggaccccccc agatagcagc cttgtcactt atgaactaca ttctcggcct gagcaggaca 360
aagttctctc aaagctgnca aaagtccaga acttgaaaag cgcctgacag aactggagac 420
agctgtcggt gtgatcagga tgctcagaat ccctttctgc aggtctacag ggagcctgtc 480
tcatggagac tgtaactgt tgcaagcaaa ngtgaacgcc ttaaacttgc agttttggat 540
caantggang gttnggttcn 560

<210> 2444
<211> 558
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

<400> 2444
ccctcactaa nggaacaaag nctggtgctc caccgcgggtg gcgnccgctc tagaactagt 60
ggatcccccg ggctgcagga attcggcacg agggaaaact agcttaaata tctcactcaa 120
cctgattttt gaattgcctt ctctttttat ggtggagggc aagcaattca gatctctgga 180
ttatgaattt tgtgaaaccc atgatagtac tattacttga agcctgtgtt gaagatatga 240
gttaatcttt aatgtgcttt gtgatatgta tttatttagt ctcaaactac caccaagtat 300
cattgtaggc ttgtttgcac tggattttta gcttactctc attatacaga gttattggat 360
gtatttgat ttgaagctat attttagatt atagcaagtg tactgcttat attgtagcat 420
tgtgtataaa aatctgattt agatttttgg aatgctagta tctggaaaat acccttaaag 480
tattttccag acagctgggc caagtatttc agtaattatg cttgttaact tttattattt 540
atatctcttg tgtcttag 558

<210> 2445
<211> 328
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

1775

<222> (270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (279)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (309)

<223> n equals a,t,g, or c

<400> 2445

```
gctgctgccc tccgagtcac cgatggcgca ttggtggtgg tggactgcgt gtcaggcgtg 60
tgacagtgct gcggcaggcc attgccgagc gcatcaagcc tgtgctgatg atgaacaaga 120
cgtgaacgtc atcatctcca cctacggcga gggcgagagc ggcccatgg gcaacatcat 180
gatcgatcct gtccctcggt cctgtgggctt tgggtctggc ctccacgggt gggccttcac 240
cctgaagcag tttgccgaga tgtatgtggn caagtccgnc gncaaggggg agggccantt 300
ggggcctgnc gagcggggcca agaaagta 328
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<210> 2446

<211> 230

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

1776

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (35)
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<220>

1777

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agagcttggt gctcathtag aagtgcacca tcacgggtct gacctntgg gacccanct 120
gtgaggcana ggacaggggt gacaagtttg tattgcgcag tgnttactcc agctgtggca 180
tgcangtgtc ancaagtatg atcagcaatg agngngnggt caatatactg 230

<210> 2447
<211> 547
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<213> Homo sapiens

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gatgaggaga tgctgttcat ctatggccac tacaaacaag caactgtggg cgacataaat 180
acagaacggc ccgggatgtt ggacttcacg ggcaaggcca agtgggatgc ctggaatgag 240
ctgaaagga cttccaagga agatgccatg aaagcttaca tcaacaaagt agaagagcta 300

1778

aagaaaaaat acgggatatg agagactgga tttggttact gtgccatgtg tttatcctaa 360
actgagacaa tgccttggtt ttttctaata cccgtggatg gtgggaattc gggaaaataa 420
ccaggtaaac cagctactca aggctgctca ccatacggnt ctnacagatt aggggctaaa 480
acgattactg acttttcttg agtaggtttt atctgaaatc aattaaaagt gnatttggtg 540
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<210> 2448

<211> 361

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (213)

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1779

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ttcaggaaat gctaaaattg ggcaccctgc ccccaacttc aaagccacag ctgttatgcc 120
agatgggtcag tttaaagata tcagcctgtc tgactacaaa ggaaaatatg ttgtgttctt 180
cttttaccct nttganttca cctttgtgtg ccncacggag atcattgctt tcagtgatag 240
ggcanaagaa tttaagaaac tcaactgcc a gtgattggg gcttctgtgg attctcactt 300
ctgtcatnta ncatgggtca atacacctaa naaacaanga ngactggggac ccatgaacat 360
t                                                                 361
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<210> 2449

<211> 764

<212> DNA

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<220>

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<220>

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<220>

<221> misc feature

1780

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<222> (629)

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gcacaaaata ctgtcatctg ctcaaagctg gctgccaaat gtttggtgat gaaggcagaa 180
atgaatggct caaaacttgg gagaagagca aaacctgaag gggccctcca gaacaatgat 240
gggctttatg atcctgactg cgatgagagc gggctcttta aggccaagca gtgcaacggn 300
acctccatgt gctgggtgtg gaacactgct ggggtcagaa gaacagacaa ggacactgaa 360
ataacctgct ctgagcgagt gagaacctac tggatcatca ttgaactaaa acacaaagca 420
agagaaaaac cttatgatag taaaagtttg cggactgcac ttcagaagga gatcacaacg 480
cgttatcaac tggatccaaa atttatcacg agtattttgt atgagaataa tggtatcact 540
attgatctgg ttcaaaattc ttctnaaaaa aactcagaat gatgtggaca tagctgatgt 600
ggcttattat ttgaaaaaag atgttaaang tgaatccttg gttcattcta agaaaatgga 660
cctgacagta aatggggaac aactggatct ggatcctggc aaactttaat ttattatgtt 720
gatgaaaaag caccttgatt ctcantgcag ggnctaaaaa gctg 764
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<210> 2450

<211> 487

<212> DNA

<213> Homo sapiens

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<220>

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<222> (349)

1781

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<220> ,

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<400> 2450

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tccggaattc cggggtacct gatctacctg aaatttaagg caacctacga tggaaatcat 120
gataccttcc gagtggagtt tctggtgggc cctgtgggag gcctctcatt tttagttaat 180
cacgatttct ctctcttga gatcctctgg accttctcca tctacctgga gtccgtggct 240
atccttccgc agctatttat gatcagcaag actggggagg ccgagaccat caccaccac 300
tacctgttct tctgggcct ctatcgtgct ttgtatcttg tcaactggnt ctggcgcttc 360
tactttgagg gcttctttga cctcattgct gtgggtggccg gcgtagtcca gaccatccta 420
tactgtgact tcttctactt gtacatacaa aagtactcaa gggaaagaag ctcagtttgn 480
cagcata 487
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<210> 2451

<211> 407

<212> DNA

<213> Homo sapiens

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1782

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<222> (166)

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<220>

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<220>

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<220>

<221> misc feature

<222> (289)

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1783

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<220>
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<220>
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 ggccccctcc tgtggagcan gtcacactgc angacttgag tcagctcatc atccgaaact 120
 gncctctntt tgacattcac ancateccacg tgtgtctgca ccttgnagtc ttacttggct 180
 ttccatctga tgggtccccctg gtgtgtgccc tгнаacanga acnaangctc cgctccctc 240
 cgaaagccan ctcccccttt gcaacccctt ctccnaaaag caatggcana agaactnaat 300
 cccacgtga tgggtgctccc tggcccataa ctggcccggg accggttnng ggaaccccan 360
 nttcttnga aaacccttgc ccacttcctg gttggtttca ggaaacc 407

<210> 2452
 <211> 474
 <212> DNA
 <213> Homo sapiens

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<220>

1784

<221> misc feature
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<220>
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agctacacac cttcgagggtg accggccagg aaacggtcgc ccagatcaag gctcatgtag 180
cctcactgga gggcattgcc ccggaagatc aagtcgtgct cctggcaggc gcgcccctgg 240
aggatgaggc cactctgggc cagtgcgggg tggaggccct gactaccctg gaagtagcag 300
gccgcattgct tggaggtaaa gtccatggtt ccctggcccg tgctggaaaa gtgagaggtc 360
agactcctaa ggtggccaaa caggagaaga agaagaagaa gacaggtcgg gctaagcggc 420
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<210> 2453
<211> 630
<212> DNA
<213> Homo sapiens

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<220>
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<222> (212)
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<220>
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1785

<222> (218)
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tggaactgggt cttttcaaatt gtggtatagc agtgggtcca gtctccagct gggaatatta 180
cgcgtctgtc tacacagaga gattcatggg tntccanca aaggatgata atcttgagca 240
ctataagaat tcaactgtga tggcaagagc agaatatattc agaaatgtan actatcttct 300
catccacgga acagcagatg ataatgtgca ctttcaaaac tcagcacaga ttgctaaagc 360
tctggttaat gcacaagtgg atttncaggc aatgtggtac tctgaccaga accacggnnt 420
atccggcctg tccacnaacc acttatacac ccacatgacc cacttcctaa agcagtgttt 480
ctctttgtca gactaaaaac natgcatatg caatcctgna tcagaaatnt gaaaacctta 540
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<210> 2454

<211> 251

<212> DNA

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gcacgnagng gnntgccggt gggaggattt ggaccgttga acatnatcca cgттаатggg 180
gacgaanggg gaaagggttc cacctttgcc tttnaaggaa tttttttccc caaaaanttg 240
ggcttaanga c 251
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<211> 489

<212> DNA

<213> Homo sapiens

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1789

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1790

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1791

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<400> 2455

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ncaacactcc angtcanc tcaactcactgg tgtatgggaa ttgtcttgat gtaaggncat 120
acttcttgcc ttctntnttg ctgcgcacaa aaccatagat tgctcttctg tnaggttttg 180
aattactgat cgcacttnat cgtnttgcat cttaatgcgt nttcttatct naaatcgctt 240
atatctggng ctggcaatng ctgattatcn atgcacatga attgnctagn gaaaaatgct 300
agaacanana acaaaaaactt gcnccaccat gaaggaatac cgattcccn ccatggtaca 360
tattccaggc cggttatctc gggcttttaa agcaaaaatt tccancccaa ataacaacag 420
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tttcttttg 489
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<211> 375

<212> DNA

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1792

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<222> (348)

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<400> 2456

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acaaccaccc gggacttcac ccagctcaac gagctgcaat gccgctttcc caggcgcttg 180
gtggtccttg ggcttcctt gcaaccaatt tgggacatca gganaactgt caaaatgagg 240
anatectgaa cagtcctaat tatnttcogt cctgggggtgg gnataccaac ccccttccc 300
cctttttcca aaaattttta ggttaaang gcnaaaaaaa acatcctntt tttcccccta 360
ccttaaanga aaac 375
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<210> 2457

<211> 287

<212> DNA

<213> Homo sapiens

1793

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<400> 2457

1794

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aaagtcacatca gcaccatgtn tnggggcatn gaccacttgg ctttggatga aatcaagaag 180
cgtgggatcc gagttggcta caccacagat gtcctgacag atacnaccgt cgaactcgca 240
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<210> 2458

<211> 105

<212> DNA

<213> Homo sapiens

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<400> 2458

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<210> 2459

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1795

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<220>
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1796

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1797

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<220>

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<220>

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<220>

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<220>

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1798

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<223> n equals a,t,g, or c

<220>
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<222> (498)
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tgcnagtggc actgctgctc ctgctcctgg tagncgctgg ccggcgcgca caggtagtgt 120
ccgtggccac tgaaactncg ctgccagtgc ttgcagaccc tgcagggaat tcaccccaag 180
aacatccaaa gtgtgaacnt aaagtcccc ggaccccaact gcgcccaaac cgaagtcata 240

WO 01/22920

1799

gccacactna agaatgggag gaaagnttgn cttcaatcct gcatgcccc a ttntttaagn 300
 anattatcgg naaaggntgt nnaacagtgg caaattcaat tggancagaa gggagggagg 360
 aaggttnaat ggtgggtgtt ngcttgnagg gagngccttn gcctttttta gggtagcaaa 420
 gngggaaagg nnggtnaaag ttnggagggg ncacntggnt tttggctaan nngnttnnag 480
 gnancgttnn gnggaatntt 500

<210> 2460
 <211> 104
 <212> DNA
 <213> Homo sapiens

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<220>
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<220>
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 <222> (51)
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<220>
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 <222> (80)
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<220>
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 <222> (98)
 <223> n equals a,t,g, or c

<400> 2460
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 agcttgctc aatcctgcan ccccatagt tatgaaantc atcg 104

<210> 2461
 <211> 393
 <212> DNA
 <213> Homo sapiens

<220>
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<220>

1800

<221> misc feature
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<220>
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 <222> (387)
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<400> 2461
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 tccatcctta taacttgaga ggctgtgaat cattccatag atgtnggtct tctgctaccg 180
 ntcttcacat tgcctctaca taccaggtct tcagctgcat tctaggaaac atcatatact 240
 attggattgc aaatctataa ataataaag acaatggact gacaggggaa aaaagttttt 300
 ttttaagttt acaaactnca atcccacttg ttggcatttc naagggggcn atactttttc 360
 cttnattcca ccgtttaaag aagtttngga att 393

<210> 2462
 <211> 362
 <212> DNA

1801

<213> Homo sapiens

<220>

<221> misc feature

<222> (225)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (252)

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<222> (262)

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<222> (316)

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<222> (335)

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<222> (351)

<223> n equals a,t,g, or c

<400> 2462

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aagggcaaag ctgcctgag ccctcgaagt gtgggcgtca tctccccgta ccggaaacag 120
gtggagaaaa tccgttactg catcaccaaa cttgacaggg agcttcgagg actggatgac 180
atcaaggact tgaaggtggt tcagtagaag aattcaaggc aagangaagc gtatctattt 240
cacggcgaac ancagacttt gnactgatct gactttattg gttcttaacc caagaggtaa 300
tgantgnacc ggcaangctg tatatcgggg aaccntttct ggcatacctg ntgaagatct 360
ga 362
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1802

<210> 2463

<211> 535

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (288)

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<220>

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<222> (321)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (325)

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<220>

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<222> (444)

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<220>

<221> misc feature

<222> (457)

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<220>

<221> misc feature

<222> (461)

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<220>

<221> misc feature

<222> (526)

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<220>

<221> misc feature

<222> (527)

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<400> 2463

1803

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ggacccacgc gtgaccggg ccaagtactt cattcgagat gagtttctga ggatcagcac 120
tgccagtgga gatgggctc actactgcta ccttcatttc acctgcgctg tggacactga 180
gaacatccgc cgtgtgttca acgactgccg tgacatcatt cagcgcattgc accttcgtca 240
gtacgagctg ctctnagaag ggaaccccc aatttaatta aagccttnag cacaattaat 300
taaaagtga acgtaattgt ncaancagtt aatcacccac catagggcat gattaacaaa 360
gcaacctttc ccttccccga atgattttgc gaaaccccct tttcccttca gcttgcttag 420
atttccaaat ttaaaaagct taangggggc tacaganaaa ngaaaaaagg gcacaaaaat 480
tccctctcac tttcattaaa ataataaaac agcagccgcc aaccanntaa atgaa 535
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<210> 2464

<211> 381

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (90)

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<222> (96)

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<222> (113)

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<220>

1804

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<222> (158)
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<220>
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<222> (327)
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<220>
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1806

<210> 2466

<211> 393

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<220>

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<222> (216)

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<222> (234)

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<220>

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<222> (239)

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<220>

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<222> (246)

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<220>

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<222> (306)

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<220>

<221> misc feature

<222> (326)

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<222> (379)

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<220>

1807

<221> misc feature

<222> (387)

<223> n equals a,t,g, or c

<220>

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<222> (388)

<223> n equals a,t,g, or c

<400> 2466

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tgtcttctgg cttcagtctg gaagatnccc agacacatgc taacaggatc tacaggatga 120
tcaaacttgg tctgggtatt gatgaagatg accctactgc tgatgatacc agtgctgctg 180
taactgaaga aatgccaccc cttgaaggag atgacnacac atcacgcatg gaanaagtng 240
actaanctct ggctgaggga tgacttacct gttcagtact ctacaattct ctgatagtat 300
atttcnagga tgcttttctc tatttngtgt aatattaaat agtctgatgg catgacaact 360
actttaaagg gaaagattng attctgnnta cta 393
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<210> 2467

<211> 256

<212> DNA

<213> Homo sapiens

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<222> (10)

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<220>

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<222> (206)

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<220>

<221> misc feature

<222> (218)

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<220>

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<222> (222)

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<220>

<221> misc feature

<222> (246)

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<220>

<221> misc feature

<222> (250)

1808

<223> n equals a,t,g, or c

<400> 2467

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gcaccaggtg gacgcggatc tgtcaacatg ggtaaaggag accccaacaa gccgcggggc 120
aaaatgtcct cgtacgcctt cttcgtgcag acctgccggg aaagagcaca agaaagaaac 180
accgcgactc ttccgtcaat ttcgcnggaa ttctccanaa antttttcgg aaaaatggaa 240
aaacnttttn tgccaa 256
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<210> 2468

<211> 478

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (330)

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<222> (332)

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<222> (346)

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<222> (359)

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<220>

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<222> (400)

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<220>

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<222> (445)

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<220>

<221> misc feature

1809

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (461)

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<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<400> 2468

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caattcctcc tgctctcttag aagacaagat gtgtgagggc aacaagacca ctatggccag 120
ccccagctg atgcccctgg tgggtggctct gagcactatc tgcttgggtca cagtagggct 180
caacctgctg gtgctgtatg ccgtacggag tgagcgggaag ctccacactg tggggaacct 240
gtacatcgtc agcntttcgg tggcggactt gatcgtgggt gccgtcgtca tgcctatgaa 300
catcctctac ctgctcatgt ccaagtggtn antgggccgt cctttntgcc tcttttggnt 360
ttccatggac tatgtggcca gcacagcgtc cattttcagn gtcttcatcc tgtgcattga 420
tcgctaccgc tctgtccaca acccntcagg taccttangt nttgtaccaa aaccngag 478

<210> 2469

<211> 574

<212> DNA

<213> Homo sapiens

<220>

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<222> (15)

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<220>

<221> misc feature

<222> (16)

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<220>

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<222> (528)

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<220>

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<222> (549)

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<220>

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<222> (550)

1810

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<220>

<221> misc feature

<222> (557)

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<220>

<221> misc feature

<222> (567)

<223> n equals a,t,g, or c

<400> 2469

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tgagggtttt attctgttct ctgaatcttg gccaaaggaa agttggaagg caactgacag 120
attctgcctt ttaggtactt gaactggcag gaaatgcac aaaagactta aaggtaaagc 180
gtattacccc tcgtcacttg caacttgcta ttcgtggaga tgaataattg gattctctca 240
tcaaggctac aattgctggt ggtgggatgt taacttctaa cattttaaaa aatttcttca 300
taggaaggaa ttttttgctg cttttaatta gtttttccag gagaggaaat ttaagtatat 360
tttcaatgat ggaagtatgg ttgtatcatg aaatttgatt tatatgtata actcaatgaa 420
tttttacttc atacttgagc tgcattgttt aaagatacct ttcaagttga acagtataca 480
cttcttggtt tcaaatactg ggatttttta aaaaatttaa gtggaatnaa ttcctgcact 540
cttctaagnn ggtattncac acattcncaa aattt                    574
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<210> 2470

<211> 386

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (363)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (369)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (378)

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<220>

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1811

<222> (384)

<223> n equals a,t,g, or c

<400> 2470

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tctaagaagt gctcagagag gtggaagacc atgtctgcta aagagaaagg aaaatttgaa 120
gatatggcaa aagcggacaa ggcccggttat gaaagagaaa tgaaaaccta tatccctccc 180
aaagggggaga caaaaaagaa gttcaaggat cccaatgcac ccaagaggcc tccttcggcc 240
ttcttcctct tctgctctga gtatcgccca aaaatcaaag gagaacatcc tggcctgtcc 300
attggtgatg ttgcgaagaa actgggagag atgtggaata acactgctgc anatgacaag 360
cancttatna aaaagaangc tgcnaa 386
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<211> 550

<212> DNA

<213> Homo sapiens

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1812

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1813

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 ccttacctgt gtcgggcctt gaaaacattc gtcaaagact ctggaagaag aacttataaa 180
 taaaaaaaga ntcatagaga aagtnnttca tcgactcaca cactatgac atgttctaata 240
 tgagctcacc caggctggga ttgaaaggct ccacagaggg aagtgaagac tatgaagaag 300
 atccctactt ggtagttaaa ccctaactac ttggctggag gattgnagat aagtggaaan 360
 taatggacca gagctganga acngtgggca cncacntcnt ggncngggag cngggngggga 420
 gctnggnnag ggacaaagtg tttccgggan tgngggcttc caggatttgt tttccngaac 480
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 cttcagcaat 550

<210> 2472
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 <212> DNA
 <213> Homo sapiens

1814

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1815

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agccctttga cggaacanaa ctgcagcatc ctgcattca gccaaccccc ccagtcccca 180
naagcacttg cggatatgta ccancctcgg nctntggntg ataaagccaa gctcaatgca 240
ggttggttag actnctgacg ctcgnttatg gaacanggca tncaacagga tgagcagctg 300

1816

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ctnttacgat ttaaatntta ttgtttcttn gacttgaatn ctaaataatga tgctgtccna 360
ataaaccaac tctatgagnn agccaggtgg gccattctct tacaagaaat tgattgcaca 420
cgaggggnga aatgtagan                                     440

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<213> Homo sapiens

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<222> (13)
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<220>
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gagacaccaa tggagatctg cctcaatgga acccctgctc tggcctacct ggcgagtgcg 180
ccccacccc tgtgtccaag tggccgcact ccagacctga aggctctact caacgtgggtg 240
gacaatgccc ggagtttcat ctacgtcgct gtcatgaact acctgcccac tctggagttc 300
tcccacctac gagcgtggcg tcaaggtgcg cctgctcatc agctgctggg gacactcgga 360
ggccatccat gcgggccttc ctgctct                                     387

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<210> 2474
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<212> DNA
<213> Homo sapiens

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1818

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<222> (74)
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<222> (188)
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ttgaatttca tcgnatgatc tgggcagacc tcagctgcct gggttaccga gctgataccc 120
agncatacca gcctttatna acaaagnctg ggttnaaaga gaagttctac gtgctccttc 180
gtgggcang 189

<210> 2477
<211> 531
<212> DNA
<213> Homo sapiens

1819

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<220>
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<220>
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 <222> (478)
 <223> n equals a,t,g, or c

<220>
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 <222> (525)
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 aaaaaagtaa aaggaaactcg gcaaattctta cccgcctgt ttacaaaaaa catcacctct 120
 agcatcacca gtattagagg caccgcctgc ccantgacac atgtttaacg gccgcggtac 180
 cctaaccgtg caaaggtagc ataatacactt gtcccttaag tagggacctg tatgaatggc 240
 tccacgaggg ttcagctgtc tcttactttt aaccagtga attgacctgc ccgtgaagan 300
 gcgggcatga cacagcaaga cgagaagacc tatggagctt taatttatta atgcaaacag 360
 tacctaacia acccacaggt cctaaactac caaacctgca ttaaaaattt cgggttggggc 420
 gaactcggaa caaaaaccaa cctccganca atacatgcta agacttcacc agtccaancg 480
 aactactata ctccattgat ccaataactt gaacaacgga acaanttacc c 531

<210> 2478
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 <212> DNA
 <213> Homo sapiens

1820

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<220>
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<222> (401)
<223> n equals a,t,g, or c

<220>
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<220>
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<222> (408)
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caaaagaaga aagatgagggc agaggtccaa gtaaaccgct agcttggtgc accgtggagg 120
ccacaggagc agaaacatgg aatgccagac gctggggatg ctggtacaag ttgtgggact 180
gcatgctact gtctagagct tgtctcaatg gatctagaac ttcacgccc tctgatcgcc 240
gatcacctct gagacccacc ttgctcataa acaaaatgcc catgttggtc ctctgccctg 300
gacctgtgac attctggact atttctgtgt ttatttgtgg ccgagtgtaa caaccatata 360
ataaatcacc tcttccgctg ttttagctga agaattaaaa nctanntna 409

<210> 2479
<211> 497
<212> DNA
<213> Homo sapiens

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<220>
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1821

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<222> (389)
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<222> (423)
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<222> (437)
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<222> (439)
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taataacatc aatttttcgc tgcgtgctgg cgaatttaag ttaattaccg gtccttctgg 120
ttgtggcaaa agtacgctgc taaaaatagt tgcttcattg atcagcccaa ccagcggaac 180
gttnactgtt tgaagggtgag gatgtcagca cactaaagcc agaaatctac cgccaacaag 240
tctcttactg cgcccagaca ccgacgctgt ttggcgatac ggtatacggt aaatctggat 300
ctttccctgg cagatccgta accggcagcc tgaccagcc atttttctcg nttttttcgn 360
acgggtttggc tttgccggac agcatttnna cggggatttc gccgggtttt tgggtggggaa 420

1822

aanaaggatt tcatggntng taacccgcaa ttttngccgn ggttttattg ttgggtggaa 480
taaccatggg tgggtgg 497

<210> 2480

<211> 171

<212> DNA

<213> Homo sapiens

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<222> (58)

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<222> (122)

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<222> (157)

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<220>

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<222> (171)

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tggaacacacg ngaaggagca gctggaaact ctccggaagc tgcanaggag ggaggtggct 120

1823

gngcagtggc tgcggcctgc agaggangac cacctgnagg attccctgga n

171

<210> 2481

<211> 448

<212> DNA

<213> Homo sapiens

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<222> (405)

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<222> (419)

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<222> (426)

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ctcattttatt gaaacatta tttctcacct ttctcaaatt gaagactgca aaaaataaaa 120
gcagtgtctt attgagttgt catgagcctc gggcgggagc agcagcactg cctctccacg 180
ctccgggaaa ccgcagctgg cgtgtgccac atcgggtcca cctcgcttta caaaacagtc 240
ctgaagctta atcaaataaa attattgtac acaacattta cattagaaaa aganagctgg 300
gtgtaggaaa gccgggcctg gtgttcctt taagcgaagg tggntccaca gttggggcat 360
cgtcgcttcc tcaaggcaaa acagcaaatag aaccctaaagg ggaanaggat gatggccang 420
aagatnccca ngaagggtgaa gcantcct 448

1824

<210> 2482

<211> 370

<212> DNA

<213> Homo sapiens

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<222> (53)

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<222> (74)

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1825

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<222> (215)
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<222> (337)
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<222> (347)
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<220>

1826

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<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
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<222> (369)
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ctatgggtctc tcttgaaatt caaatTTgaa tggaaatctc ctaatgcac tgaTnaacat 180
actgtttgtc tgtnggatat nggcncngna acaanagaat gcnaaattgt ngatnctaaa 240
ccatctttan tggccactca actgttntta aaagatgtga ctggcacctg ctgcacaatt 300
cattgtatgg atctgttgct gatgatcaaa acttatnata tggaacncaa nntccaatac 360
aactccaanc 370

<210> 2483
<211> 383
<212> DNA
<213> Homo sapiens

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<220>
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<222> (325)
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<222> (349)
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<220>
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1827

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<400> 2483

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cagaagatcg gcctccagaa ctctgttta ttcattggagg acacactgct aagatttcag 120
atttttagctg gaacccaat gagccttggg tcatttgctc agtgtctgag gataacatca 180
tgcagatatg gcaaattggct gaaaatattt acaatgatga agagtcagat gtcacgacat 240
ccgaactgga gggacaagga tcttaaacc aaagtacgag aaatgtttct gttgaatgta 300
atgctacatg aatgcttnat ttatntttcg ccaaaaaggc attgtatant angaaatgta 360
agtgggggtgg cttatggctn ctt                                     383
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<210> 2484

<211> 583

<212> DNA

<213> Homo sapiens

<220>

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<222> (56)

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<222> (123)

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<222> (140)

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1828

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<220>
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<220>
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<222> (348)
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<220>
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<223> n equals a,t,g, or c

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1829

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 acgcctgcag gtaccgggtcc ggaattcccg ggctcgacca cgcgtccgcc cagctgggat 120
 ctnagggctt ccttttctgn cctcctncag gatgggggtca accgccatcc tcgccctcct 180
 cctggctgnt ctccaaggag tctgtgccga agngcanctg gngcagtcgc gagtagaggt 240
 gaaaaagccc gngnagtctc tgaggatctc tgtaagggtt ctggatacag ctttaccagc 300
 tactggatca agtgggtgcg ccagatgcn gngaaaggcc tggagtgnat ggcgaggatt 360
 gatectagng actcttatac caactacagc ccgtccttcc aaggccacgt caccatctna 420
 gctgacaagn ccatcagcac tgctacctgc agtggagcag ctgaaggcct cggacaccgg 480
 catgnattac tngccagac atgaagccag aggccttgac tactttgact actggggcca 540
 ngnaaccctg gtaccgcttc ttagcttcan caagggccat cgg 583

<210> 2485
 <211> 243
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1830

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ggacagcaag gacagcacct acagcctcag cagcaccctg acgctgagca aagcagacta 180
cgagaaacac aaagtctacg cctgcnaagt cacccatcag ggctganct cccccgttnc 240
aaa 243

<210> 2486
<211> 396
<212> DNA
<213> Homo sapiens

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<220>
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<222> (329)
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1831

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<222> (382)

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<400> 2486

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gatccagtgga gaattattgtg atgactcagt ctccagtcctc cctatacgtc acccctggag 120
agccggcctc catctcctgc aggtctagtc agaccctcct gcatagtaat ggatacaact 180
atttggattg gtacctgcag aagccagggc agtctccaca gtcctgatc tatttggggt 240
ctaactgggc ctccggggtc cctgacaggt tcagtggcag tgggtcaggc acagacttta 300
cactgaaaat caccagagtg gangctgang atgttggggg ttattattac tggatgcaag 360
ctntacaaat tcattcantt tnggccttg accaaa 396
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<212> DNA

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<222> (314)

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<220>

1832

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<222> (342)

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<220>

<221> misc feature

<222> (383)

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<220>

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<222> (396)

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<400> 2487

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ggccattttt atgctgactc agcccactc tgtgtcggag tctccgggga agacggtaac 120
catctcctgc acccgagca ntggcaagca ttgccagcaa ctatgtgcag tggttccagc 180
agcgcccgagg cangttcccc caccactgtg atctatgagg ataaccaaag accctctggg 240
gtccctgatc gggtctctgg cttacatcga cagctctcnc aactctgcct tccttaccat 300
tctctggact gaanactgag gacgangctg actactactg gnagtcttat taataacaag 360
caatgttggg tatttcggcg ganggaccaa aacctnaacc ttctaag 407
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<211> 244

<212> DNA

<213> Homo sapiens

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<222> (34)

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<220>

<221> misc feature

<222> (39)

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<220>

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<220>

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<222> (87)

1833

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<220>

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<222> (113)

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<220>

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<220>

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<220>

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<222> (159)

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<220>

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<222> (204)

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<220>

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<220>

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<222> (217)

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<220>

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<222> (218)

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ccaggggaaa nagccaccct ntctgctgg gccagtcana gtgtttacag cagctactta 180
gcctggtacc agcagaaacc tggncagnt cccaggnncc tcatctatgg tgcattccagc 240
aggg 244

<210> 2489

<211> 370

1834

<212> DNA

<213> Homo sapiens

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<220>

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<222> (161)

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<220>

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1835

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<220>

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<222> (361)

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<400> 2489

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acagagtcac catcacttgc ccgggcangt cagagcatta ncagcgatgt aaattggatc 180
agcagacaat atggaaagcc ctancctcct gatctatgct gcatcaantc gcatagtggg 240
gcccataangg tcagtgcagt gatctgggac agacttcact ctcacatanc agtctgcacc 300
tgagatttga nctactactg caacagagta cagaggnact cacgtttagca tggaacnatg 360
nagattaaca                                     370
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<210> 2490

<211> 473

<212> DNA

<213> Homo sapiens

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<220>

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<222> (65)

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1836

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<220>
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<220>
<221> misc feature
<222> (196)
<223> n equals a,t,g, or c

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<220>
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<220>

1837

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 ccggnctctcc tggacagtna gtcaccatct cctgcactgg gaaccagcag tgaatgttgg 180
 tggttataac tttgtntcct ggtaccaaca ggaccagcgc aaagncccca aactnatgat 240
 ttatgaatgt nactttaagc gggccctcag gggtcctga atcgntttct ttgggntcca 300
 agttttggca acacggcctt ccctggacca ttttttgggg ttccaggtnn aggatgacgg 360
 tggattatta actggttggt tcatatttca gngggcttac aatagnttat gtttttcggg 420
 aattggggac caaggttcaa cgtcctgngg tnagcccccag ggncaaacc att 473

<210> 2491
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 <212> DNA
 <213> Homo sapiens

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<220>
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1838

<222> (145)
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1839

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1840

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1841

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<220>
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<220>
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 tgccctccgtg tctgggtctc ctggnacagt cgatcaccat ctccctgcact gggaacaagt 180
 agtgacgttg gtggctataa attatgtctt ctgggtaccat caataaccca ggcaaagccc 240
 cccaaccctg gttttatgga tgnagttat tgggcctaag gggtttttta aatgcgcttt 300
 ttttggttc caagtttgn aaaaaggggn cttccttnga ncatttttgg ggttcccncc 360
 ctggggggggg tttttnttt ttnntnngn gctnttttgg aaaggncccc actntntttt 420
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 nttttttccc ccnngnggg ggggnnaana 510

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 <212> DNA
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1842

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<220>
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<220>
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 tgagggtgagg aagcctgggt cttcgggtgaa tatctcctgc aaggcttctg gaggcacctt 180
 cagtagatat gctgtcaact ggggtgcgaca ggcccctgga caaggccttg agtgggtggg 240
 aggcatacact cctgtctatg gtacgacaca ctatgcagat aatttgcgcg gccgggtcac 300
 cataacggcg gacaaatcca cgaacatagc ctatatggaa ttgaagagcc tgaaatttga 360
 agacacggcc atgtatttct gtgcgagggt tcacaactcc tatgacagtt cggctctcaa 420
 ttggnctgcac ccctgggggcc agggaaactct ggtcaccgtc tcctcagnct ncaccaaggg 480
 cccatcngtc ttccccctgg cacccttctt 510

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 <212> DNA
 <213> Homo sapiens

<400> 2493
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 tttctgtgcg agacctattg cgagtgtgaa agctcgtctg gtggcaccaa gcaaggacta 180
 ctggggccag ggaaccctgg tcaccgtctc ctacgcctcc accaagggcc catcggtctt 240

1843

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249

<210> 2494

<211> 490

<212> DNA

<213> Homo sapiens

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caatgtgagg tgcggctggg ggagtctggg ggaggcttgg ttcagccagg gcggtccctg 180
agactctcct gtacaactcc tggattcacc tttgatgatt atgcgatgaa ctgggtccgc 240
caggctccag ggagggggct ggagtgggtg ggtttcatta gaagcaaac ttatgggtggg 300
acaacacaat acgccgcggc tgtgaaaggc agattcacca tctcaagaga tgattccaaa 360
agtatcgtct atctgcaa atgaacagcctg aagaccgagg acacagcccg tgtattattg 420
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ggnttcntta
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490

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<211> 489

<212> DNA

1844

<213> Homo sapiens

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<220>

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<222> (83)

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<220>

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<222> (132)

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<222> (360)

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<220>

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<222> (382)

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1845

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1846

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gaactgcctc tnttgtgtgc ctgctgaata acttctatcc cagngaggcc aaagtacagt 180
ggaaggtgga taacgccctc caatcgggta acttccagggt ggagtgtcac agagcaggnc 240
agcaaggaca gcacctacag cctcagcagc accctgacgn tgagcaaagc agactacggg 300
gaaacacaaa gttttacggc tgcgagttca ccnctcaggg ccttaggttg gcccgttaan 360
aaggggtttt aacagggggg gntttttagg ggggnggggtt nccccccctt nttctnnntt 420
ttccatttta ccccttcnnn tttnnnggctt tnncttttta aaagggnggg ncncccttt 480
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1847

<210> 2496
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<212> DNA
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<222> (413)
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<222> (461)
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<222> (467)
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<220>
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<222> (517)
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1848

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tcactctcac catcagcagt ctgcagcctg aagattttgc aacttacttc tgtcaacaga 180
gtgacgattt cccttttagc ttcggccaag ggacacgact ggagatgaaa cgaactgtgg 240
ctgcaccatc tgtcttcac ttcgcccat ctgatgagca gttgaaatct ggaactgcct 300
ctgttggtgtg cctgctgaat aacttctatc ccagagagggc caaagtacag tggaaggtgg 360
ataacgccct ccaatcggn actcccagga gagtgtcaca gagcaggaca gcnaggacag 420
cacctacagc ctcagcagca ccctgacgct gagcaaagca nactacnaga aacacaaagt 480
ctacgcctgc gaagtcaccc atcaaggcct gagctcnccc gtcacaaaga gcttaacagg 540
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<210> 2497
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1849

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<220>

1850

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1851

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<220>

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<222> (476)

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<400> 2497

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tatagtacat cctccagggc ccttggnatt cccagaacag gttcagtggc agtgggtctg 180
ggnactgaac tttcacttct tcaacatcag cgggcctggg agcctgaaga ttttgagta 240
ttantactgt gcaactctta tcgtagggcc ctcgggcact tttcgggcgg aggggaccca 300
aggtgggaga ttgagacgga actttgggct tgcaaccatn ttgttttttn anntttnccg 360
gccattttga ttggggcant ttggaaantt ttgggacttg cncttntttg nnnttncccn 420
nttgaaaaaa attttttttt ccngggngg ggccaanttn naaaggggag gnggnttaa 480
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<210> 2498

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<212> DNA

<213> Homo sapiens

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1852

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ggccattttt atgtgactc agccccactc tgtgtcggag ccnccgggga agacggtaac 120
catctcctgc acccgagca gtggcagcat tgccagcaac tatgtgcagt ggttccagca 180
gcgccccggc agttccccca ccaactgtgat ctatgaggat aaccaaagac cctctgggggt 240
ccctgatcgg ttctctggct ccatcgacag ctctccaac tctgcctccc tcaccatctc 300
tggactgaag actgaggacg aggtgacta ctactgtcag tcttatgata gcagcaatgt 360
ggtattcggc ggagggacca aactgaccgt cctaggtcaa gcccaaggct tgccccctcg 420
tcactctgtt ccgcccctcc ttctgangag ctttaagcca acnaggccac actggtgtgt 480
ctcataagng attcta                                     496
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<210> 2499

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<212> DNA

<213> Homo sapiens

<400> 2499

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ccaacatgg agtttgggct tagctgggtt ttcttgttg ctattttaaa agcctccacc 120
aagggcccat cggctctccc cctggcacc cctccaaga gcacctctgg gggcacagcg 180
gccttgggct gcctggtcaa ggactacttc cccgaaccgg tgacggtgtc gtggaactta 240
ggcgcccttg accagcggcg tgcacacctt cccggtgtc ctacagtcct caggactcta 300
ctccctcagc agcgtggtga ccgtgccctc cagcagcttg ggcaccaga cctacatctg 360
caacgtgaat cacaagccca gcaacaccaa ggtggacaag agagttgagc ccaaattcttg 420
tgacaaaact cac                                     433
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<210> 2500

<211> 518

<212> DNA

<213> Homo sapiens

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<220>

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1853

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1854

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ctctcactgc acaagcctct gtgacctcct atgtgctgac tcagccaccc tcggtgtcag 120
tggecccagg acagacggcc aggattacct gtggggcaaa caacattgga attaaaaatg 180
tgcactggta ccagcagaag ccaggccagg cccctgtgct ggtcgtctat gatgataagc 240
gaccggccct cancgatcct gancgaattt tttggttcca actnttgga acacnggcc 300
ccctgaccat caacanggtc gaaccgggga tgaagccgac tattactgtc aggtgtggga 360
tactagtant gccaaaggagt gttcggcgga nggaccaaac ttaccgtcta attaacc 420
ggctgcccct cggtcactct gttccaccct tctnttaaga acttcaacca aaaangncac 480
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<210> 2501

<211> 402

<212> DNA

<213> Homo sapiens

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<400> 2501

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tccgggtctc ctggacagtc agtcaccatc tctgcaactg gaaccagcag tgacgttggt 180
ggttataacc gtgtctcctg gtaccagcag tcccaggca cagcccccaa actcatgatt 240
tatgagggtca gtaatcggcc ctcaagagtc cctgatcgct tctctgggtc caagtctggc 300
aacacgggct tccttgacat cttttgggct ccaagcttga ngacnaaagg tgaattatta 360

```

1855

ctgnctgctc gnatcaaagn aagtaagttt tttttcctat tt

402

<210> 2502

<211> 349

<212> DNA

<213> Homo sapiens

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<220>

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1856

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<220>
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<222> (303)
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<220>
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aagattttcta atcgggaaact ctggcgtccc anacagattc ancggcagtg gggtcaggca 120
ctgatttgca cactgaaaat cagcaggggtg gaggctgagg atgttgcat ttattaactg 180
catgcaaagg ttcacactgg cctcggaacg ttcggccaag ggnaccaagg tgggaaatcn 240
aaacgnaact gtggctgcac catctgtntt catctttccc ggccatctgn ntgagccatt 300
tgnaaatctg gaactgcctc tgttgtgtgc cctgctgnat aactttcta 349

<210> 2503
<211> 169
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (9)
<223> n equals a,t,g, or c

<220>
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<222> (29)
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<220>
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1857

<222> (117)

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<222> (126)

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<220>

<221> misc feature

<222> (158)

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<220>

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<222> (159)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (160)

<223> n equals a,t,g, or c

<400> 2503

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gtggcgggccg ctctacaact actggatccc ccgggctgca ggaatactgc accaccntaa 120
caacangttt gtgctattca ctgtggcata acaatggnnn aattagtcg 169

<210> 2504

<211> 140

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (9)

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<220>

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1858

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<222> (58)

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<222> (103)

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<222> (125)

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<220>

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<400> 2504

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ctagaactag tggatccccc gggctgcagg aattcggcac gantccatc tcaanaaaaa 120
aaaanaaaaa aaancccaaa 140

<210> 2505

<211> 107

<212> DNA

<213> Homo sapiens

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<222> (26)

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1859

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<222> (52)
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<220>
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cgctctaaaa ctaatggatc ccccgggctg caggaattcg gcacgan 107

<210> 2506
<211> 104
<212> DNA
<213> Homo sapiens

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<220>
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<400> 2506

1860

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gatcccccg gctgcaggaa ttcggcacga ggtcngncta ngcc 104

<210> 2507

<211> 134

<212> DNA

<213> Homo sapiens

<220>

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<222> (9)

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<220>

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<222> (17)

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<220>

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<222> (121)

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<220>

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<222> (123)

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cgcggtggcg gncgctctag aactagtggga tccccgggc tgcaggaatt cggcacgagn 120

1861

ncnagtccat gacc

134

<210> 2508

<211> 124

<212> DNA

<213> Homo sapiens

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<220>

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<222> (117)

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<400> 2508

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ctagaactag tggatccccc gggctgcagg aattcggcac gaggccatgt tancgangac 120

attt

124

<210> 2509

<211> 562

<212> DNA

<213> Homo sapiens

1862

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<220>
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<220>
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 gaggtttaat tacctggtaa tgtcgcagct gcactgctac ctgtgtatct tctgttttaa 180
 tactggtagc tctcaccaca taagcttaat tactgggggc agagtgcacat gctcgtgcac 240
 agtcaagatt ccactaaaat ggtttgatct cgttgtaaat agtctcgtat tgcctaattgc 300
 attaaaactc ttgaaatgat tgtattgcta ggccctttct tcaaaacggg ctttcttcgc 360
 attatttagt ttacaggtgg actttttttt ttttaaagga agccaaatta ttgaatgtgt 420
 aagagtacta taaaaagctg attgctcatc ttgagtgtca agaccagtt ccgggtactt 480
 tattctttag atttggtagt gtagcattat cgaccctctg ccctatgttg ctgtactgtt 540
 tcctttaaaa ggaaatggct ga 562

<210> 2510
 <211> 440
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<220>
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 <222> (13)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (417)
 <223> n equals a,t,g, or c

<400> 2510
 nctcataagg gancaaagct ggtgctccac cgcggtggcg gccgctctag aactagtgga 60
 tccccggggc tgcaggaatt cggcacgagc ccataccttg ctctaggat ttacatgtt 120

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1863

```

gcctgcaaag ggagtcaaac ttagggggca ggcaaacaaa cgagttcttt ccagcctctg 180
taaccggatc gctagagcga aataaactcg cacaagtgtc cagagatcgt agccagacag 240
ccagcctgcg cttgaagcaa cttttaagtg aggctgcaag agccgccggg atgtagattt 300
tagttcgtgg ccaagcaca ctacgacacc ctgtccctgc cccacccca tccccaagaa 360
tgcattggagg aaggagagag gacgaggtga gggccgcctg catttctgca cgtcgnggcc 420
ggttagaaac cctgcagttt 440

```

<210> 2511

<211> 149

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (120)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<400> 2511

```

aaccgcgacc aanggaaca aancncgggc cccaccgcgg tgacgcccgc tcgagaacta 60
gtggatcccc cgggctgcag gaattcggca cgagggttaat tagaataaag tcattttctn 120
ccaaaaaaaa aaaaaaaaaa aaaagnaaa 149

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<210> 2512

<211> 149

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

1864

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (127)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

1865

<400> 2512
nnangacctt tcttngantt aacnccccctc ccttggaata aaactggagc tccaccgccg 60
tggcggcgct ctaaaactag tggatccccg gggctgcagg aattcgggac gagttcatgg 120
agaggcnant gctnggttcn cctgtgang 149

<210> 2513
<211> 461
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (246)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (431)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (448)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c

<400> 2513

1866

```

gttnaggagac cttcgtctcc ctgagggaga ccttggcatg gagattgagc agaagtacga 60
ctgtggagaaa gagatcctga tcacggtgct gtctgccatg acagaggagg cagctgttgc 120
aatcaaggcc atggcaaaat aactggctcc caggggtggcg gtggtggcag cagtgtatcct 180
ctgaacctgc agaggccccc tccccgagcc tggcctggct ctggcccggc ctaagctgga 240
ctcctnctac acaattttatt tgacgtttta ttttggtttt cccacacccc tcaatctgtc 300
ggggagcccc tgcccttcac ctagctccct tggccaggag cgagcgaagc tngggccttg 360
gtgaagctgc cctcctcttc tccccacaca ctacagccct ggtgggggag aaggggggtg 420
gtgctgcttg nggttagtct tttntntntt ntttaattca a 461

```

<210> 2514

<211> 368

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (288)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (336)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (355)

<223> n equals a,t,g, or c

<400> 2514

```

gctcgctctc ctgccccacc ccgaggtaaa gggggcgact aagagaagat ggtgttgctc 60
accgcggtcc tcctgctgct ggccgcctat gcggggccgg cccagagcct gggctccttc 120
gtgactgctg agccctgctg cgagaaagcc ctctccatgt gcccccccag cccctgggc 180
tgcgagctgg tcaaggagcc gggctgctgc tgcctcatga cctgcgccct ggccgagggg 240
cagtcgtgct gcgtctacac cgagcgctgn gccagggggc tgcgctgnct ccccgccag 300
gacgaggaga agccgctgca cgccctgctg cacggnccgg gggtttgnct caacnaaaag 360
agctaccg 368

```

<210> 2515

<211> 695

<212> DNA

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1867

<213> Homo sapiens

<220>

<221> misc feature

<222> (477)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (525)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (573)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (625)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (664)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (665)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (671)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (690)

<223> n equals a,t,g, or c

<400> 2515

```

gtgctgagaa tattcctgag aatccccctga agtatctgta tccaaatatt gacaaagacc 60
atgccttttg aaagtattac tccaggccaa aggaagtcac ccttctagac ttcagaccac 120
agacaacctg ctccccatgt ctctgagga gtttgacgag gtgtctcgga tagtgggctc 180
tgtagaattc gacagtatga tgaacacagt atagagcatg aatttttttc atcttctctg 240
gcgacagttt tccttctcat ctgtgattcc ctctgctac tctgttcctt cacatcctgt 300
gtttctaggg aaatgaaaga aaggccagca aattcgctgc aacctgttga tagcaagtga 360
atcttctctc aactcagaaa catcagttac tctgaagggc atcatgcac ttactgaagg 420
taaaattgaa aggcattctc tgaagagtgg gtttcacaag tgaaaaacat ccagatncac 480

```

1868

```

ccaaagtatc aggacgagaa tgaggggtcct ttgggaaagg agaanttaag caacatctag 540
caaatgttat gcataaagtc agtgcccaac tgntataggt tgttgataa atcaagtgg 600
tatttaggga actgcttgac cgtangaacc ggtaaatttc tgggtggggag aattcttaca 660
tgtntcttt ngctttaagg gaactgggcn agttt 695

```

<210> 2516

<211> 294

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (216)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (220)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (281)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (284)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<400> 2516

```

gcactccact ccttgtgcgg cgctaggccc cccgtcccgg tcatggccat gctcagggtc 60
cagcccagagg cccaagccaa ggtggatgtg tttcgtgaag acctctgtac caagacagag 120
aacctgctcg ggagctattt ccccaagaag atttctgagc tggatgcatt tttaaaggag 180
ccagctctca atgaagccaa cttgagcaat ctgaangccn attggacatc ccagtgcctg 240
atccagtcaa ggagaaagag aaagaggaac ggaagaaaca nganganaaa ggaa 294

```

<210> 2517

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (301)

<223> n equals a,t,g, or c

1869

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (404)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (457)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (484)
<223> n equals a,t,g, or c

<400> 2517
tatacggaaa gctggtacgc ctgcaggtac cgggtccggaa ttcccgggtc gacccacgcg 60
tccgcatccg gacaccacag cggcccttcg ctccacgcag aaaaccacac ttctcaaacc 120
ttcactcaac acttccttcc ccaaagccag aagatgcaca aggaggaaca tgaggtggct 180
gtgctggggg cccccccag caccatcctt ccaaggtcca ccgatgacaa catccacagc 240
gagacctccg tgcccgacca tgcgtctctg tccctgttca acacctctt cttgaactgg 300
ngctgtctgg gcttcatagc attcgcctac tccgtgaagt ctaggacagc gaagatgggt 360
ggcngacgtg accggggccc angcctatgc ctccaccggt caantgcctg aacatctggg 420
ccctgattnt gggcatnctc atgactcatt nggattnatc cttgttactt ggtatttctg 480
cttntgtgac agtctaccat tatttat 507

1870

<210> 2518

<211> 565

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (149)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (212)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (216)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (294)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

1871

<220>
 <221> misc feature
 <222> (305)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (312)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (462)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (495)
 <223> n equals a,t,g; or c

<220>
 <221> misc feature
 <222> (497)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (542)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (547)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (552)
 <223> n equals a,t,g, or c

<400> 2518
 gctngctatg ggccctagagt agcttaacct aatgctacta acctncctcc ataccattat 60
 tgtaaagatt aaaggtgatg catctgttaa gtaactaata gagtgccttat taaaagggtat 120
 gtgtncata agtattaatt ccctttctnt ctttttctta ctagtgcact tgtgttttta 180
 atggatcata ctttacccta tattgtattg tnggangcat cgtggatgga tggctgctgg 240
 aaacccttg ccataaccan ctcttcttca atacttaagg atttaccgtg gctntganta 300
 atganaattt cnaaaccaca ttttgaaaaa ttatttccat cccagtgccta cttgtgttta 360
 cttcttaaca atcattttct aacttgaaag ctggcattcc atgtcttcat ttttgggctg 420
 tttcaatgca agggcttccc taaaacaaaa accaactggg tnaatgttat taagtgattt 480
 gaaaaaattt ggaanancctt attccatcta tgccttttga tgctacttta tattccggaa 540
 anttaanttt cncctccattt tccaa 565

1872

<210> 2519
<211> 543
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (227)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (249)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (367)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c

1873

<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (441)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (477)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (515)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (537)
<223> n equals a,t,g, or c

<400> 2519
gcacatagct agtcagtgac agactagtat ctgggtcact ggactcctta ctcaaaatct 60
actatttaaat cagtctgtca gattaaccca cctggcataat gtacctgggtg tgtgtgtaaa 120
gctctgatgt aatcagctgt acttagttcc ttttagtggt cctatctctt tatccaagtg 180
tattaatttc atcttattaa atctttgaag tatcagacca tgagaangca tgaanaaacc 240
tgggctgana atcttcgcta tangaaacct gatcttgact gtatggctgg cttgaagacgt 300
ttcacactgg aattgcaaca cacttattgg tgacctaaagg tgcattgtnt tttgcaaaat 360
ctctcantna aggaatttat tggctnaaaa ctcttgaac tgccacaant gggggcccn 420
ccnattaaaa gaaacaaagg nttttgctta aaaggccctt gaaaaccaat tcnaacncct 480
ggtcctctct cggaatttca naaaaaaat cccnccctt tgaaccccc cctcaanaaa 540
aaa 543

1874

<210> 2520

<211> 355

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (89)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (167)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (214)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (233)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (248)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (263)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (333)

<223> n equals a,t,g, or c

1875

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<400> 2520

```

gcgatgcgct gtatgccggt atggaacggg cagacgctga cgttcgtgca ggaccgaccg 60
tcggataaga cgtggaccta taaccgcant aatgtggtga tgccggatga tggcgcgccg 120
ttccgctaca gcttcagcgc cctgaaggac cgccataatg ccctttnagg tgaactggat 180
tgacccgaac aacggctggg aaacggcgac aganccttgtt gaaagatacg cangccattg 240
cccgtttncg gtogttatgt ttncaaaaat tgatnccttt tngcttttac cagccggggg 300
ggggggcccg gttaccccat tccccccct atngttgant tcccttatta aaatt 355

```

<210> 2521

<211> 329

<212> DNA

<213> Homo sapiens

<400> 2521

```

gctctctaga gccctagcag ttgaactgtt agacaaagt aacaatccag ataaccacgc 60
acattacact gaagcagatg acgatgactt tgagcccat gcaatcattc gtcataccat 120
tagatctaca aacaggaatg ccagagctga acggacagct tcagaaataa attttgacaa 180
attacaattt gaacctcctc tgagaaaaga aacagaagca cgagatgaaa tgggattgtc 240
atccagaccc aaatttcacg ttacagtggt aatccttttg ttgatggtgc aaatactggc 300
aatcacctc aaaacgttgc aataccacc 329

```

<210> 2522

<211> 339

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (259)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (336)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<400> 2522

```

ctttaatctc atttccccct ccatttccag gtactgcaaa aagcctttga cttcaaactg 60
cacaattcag atagcaacac ctgggaaagg caagaagtca acacaaaaac ccattccctat 120
tctagctgct ggtttttgct cagacaaaat gtcattgttg cttgtatatg gcagttgggt 180
tcagcctact attgagcgag tgggtacgtta gctgctactc tggagtaaag caatatagca 240

```

1876

tccctgttgt ccatggaana aaattgattt taaaaataac aacattgggtc tttaagataa 300
ataatatatc cttttttaat taaaggattc ttcatnatn 339

<210> 2523

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (389)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (404)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (413)

1877

<223> n equals a,t,g, or c

<400> 2523

```
gggaggagct agangagctg gagcaggagg aattggccca ggagttgtta aatgtgggcg 60
acaaggaaga agaaccctca gtcaaattgc ctagtgtacc ttctactcat ctgcggcagg 120
gccagctccc aaagtggatg aagatgaaga agcactaaag cagttggctg agtgggtatc 180
ctgataaatc tgggcttgtc ttcctaattgc tacctttgtt ggtcctttct tccttaagtg 240
ccaagtgctg agctaaagga gaattgcagc tgantatgct cgaaatagtt catccangtc 300
angtggagaa acactatcgg gaaatggaag aaaaattagc actgattatt cagaaacatt 360
ggaaagggtc agggaaaggg aaaattna ccaacngaag cngnctctta tanaa 415
```

<210> 2524

<211> 241

<212> DNA

<213> Homo sapiens

<400> 2524

```
gatggttcag agaaaatatt actgattgtg cttgtcccag catttagcat gttgaagttt 60
tgtatataag aagtttttagc atagtggatt ttttataagt aggttaaaaa atactatttg 120
tatgttcagt taaactttct ctgtatgttt gtctgttaca gctcagtcct tttgtttaca 180
gcgagtttgc caggagagaga aaccttcacg tttcattact tgaccgact ctatgagcat 240
t 241
```

<210> 2525

<211> 536

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (506)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (518)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (530)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (531)

1878

<223> n equals a,t,g, or c

<400> 2525

```

gctcggatca ggatttaaac cggatgagga gtgaattgct ggtgcctggg tcacagctta 60
ttttaggtcc ccatgaatcc aagataccta tacttttgat tcagcagcca ggaaaagtga 120
ctggtgaaga tcgactaggc tggggaagtg gctgggatgt cctactccca aagggtctggg 180
gcatggcttt ctggattcca tttatttatc gaggtgtgag agtcggaggg ttgaaagagt 240
ctgcagtgca ttctcagtat aagaggctgc ctaatgtccc aggcgatttt ccagactgcc 300
ctgccgggat gctgttttgc gaagagcaag ctaagaatct tcttgaaaag tacaaaagac 360
gccctcctgc aaaacggccc aactacgtta agcttggcac tctggcacct ttctgctgtc 420
cctgggagca gttaactcaa gactgggagt caagagtcca ggcttacgaa gaaccttctg 480
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<210> 2526

<211> 487

<212> DNA

<213> Homo sapiens

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<220>

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<220>

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<222> (456)

<223> n equals a,t,g, or c

<400> 2526

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gaggcttgga atagttaaat gactttgggc ttgtccaagg ttagatggag ttcaactcta 120
acgtcaagtc ttggtccttt tcattgacga agcttcacaa aagatgtcta agcaacagcc 180
aactcagttt ataaatccag aaacacctgg ctatgttga tttgcaaacc tccccaatca 240
agttcaccga aaatcagtga aaaaagggtt tgagttcaca ctgatggtgg tcggtgaatc 300
aggtctagga aaatcgactc tcataaacag cctattccta actgatctgt acccagaaag 360
agtcatacct ggagcagcag aaaaaattga aagaactgtc cagattgagg cttcaactgt 420
tgaaattgaa gagcnagggg tcaagctacg gcttgncagt ggtagatacc cctggctatg 480
ggtgacg 487

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<210> 2527

<211> 410

WO 01/22920

1879

<212> DNA

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<220>

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<220>

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<222> (373)

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<400> 2527

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ctagtggntc ccccgggctg caggaattcg gcacgagggc cgttctggag ctgttgataa 120
gagagctcgg gaagctggaa atataaatca atccctggtg actttgggaa gggtcattac 180
tgcccttgta gaaagaacac ctcatgttcc ttatcgagaa tctaaactaa ctagaatcct 240
ccaggattct nttggagggc gtacaagaac atctataatt gcaacaattt ctctgcatc 300
tctcaatctt gaggaactc tgagtacatt ggaatatgct catagagcaa agaacatatt 360
gantaagcct gangtgaatc agaaactcac caaaaaagc cttattaagg 410

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<210> 2528

<211> 100

<212> DNA

<213> Homo sapiens

1880

<220>
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<222> (89)
<223> n equals a,t,g, or c

<220>
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<222> (91)
<223> n equals a,t,g, or c

<400> 2528
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tgtaactcat tcatganana aaccctatna ntgtgctgaa 100

<210> 2529
<211> 484
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<220>
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<222> (315)
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<220>

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1882

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<220>
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1883

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<220>
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<220>
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<220>
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<220>
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<220>
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<220>
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<220>
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<220>
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<220>
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<220>
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1884

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<220>

<221> misc feature

<222> (170)

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<220>

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<222> (223)

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<220>

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<222> (411)

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<220>

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<222> (426)

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<220>

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<222> (430)

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<220>

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<222> (473)

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<220>

<221> misc feature

<222> (490)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (514)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (539)

<223> n equals a,t,g, or c

1885

<220>
 <221> misc feature
 <222> (547)
 <223> n equals a,t,g, or c

<220>
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 <222> (560)
 <223> n equals a,t,g, or c

<220>
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 <222> (576)
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 ctagttcgcg agcgggccgct ctagaggatn caaggttacg tacgcaacca tgccagncna 120
 angctntttn antggggcnn cnaaantnaa nttannnggc cgcngtttnn caacgtcgtg 180
 actgggaaaa ccctggcggt acccaactta atcgcccttc agnacatccc cctttcgcca 240
 gctggcgtaa tagcgaagag gcccgcaccg atcgcccttc ccaacagttg cgcagcctga 300
 atggcgaatg ggacgcgccc tgtagcggcg cattaagcgc ggnggggtgtg gtggttacgc 360
 gcagcgtgac cgctacactt gccagcgcgc tagcgcgcgc tcctttcgtc ntcttccttt 420
 cctttntcgn cacgttcgcc ggctttcccc gtcaagctct aaatcggggg ctnccttttag 480
 ggttccgatn tagtgcttta cggcacctcg accncaaaaa acttgattag ggtgatggnt 540
 cacgtantgg gccatcgacn tgatagacgg atattngcc tttgacgttg gag 593

<210> 2531
 <211> 302
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (15)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (44)
 <223> n equals a,t,g, or c

<400> 2531
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 ggatcccccg ggctgcagga attcggcacg agaatgtcag gtaattgtta gccaaccaat 120

1886

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catattttaa actgagacac caagtaattg actggaatct ctttgtagcg gatttactaa 180
gtgggtgggtt ttctcatgga gtgagctgtt gggagttcca ctatttcatt ggaatatgga 240
caaatttttag aatgaaaggt aaacacttgg gagagagaga gagaaagaaa cacagacgaa 300
gg                                                    302
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<210> 2532

<211> 275

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (216)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (255)

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<220>

<221> misc feature

<222> (256)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<400> 2532

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gatccagtgg gaattattgtg atgactcagt ctccactctc cctgcccgtc acccctggag 120
agccggcctc catctcctgc aggtctagtc agaccctcct gcatagtaat ggatacaact 180
atttgatttg gtacctgcag aagccagggc agtctncaca gtcctgatac tatttgggtt 240
ctaactgggc cttcnngggn tccttgacag gnttt                                     275
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1887

<210> 2533

<211> 498

<212> DNA

<213> Homo sapiens

<220>

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<222> (4)

<223> n equals a,t,g, or c

<220>

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<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

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<220>

<221> misc feature

<222> (85)

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<220>

<221> misc feature

<222> (92)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (119)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<400> 2533

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tcccgggtcg acccacgcgt ccggnctctgt cntataacaa gcttaaaaac ataccaacng 120
tcaatgaaaa ccttgaaaac tattacctgg aggtcaatca acttgagaag ttgacataa 180
agagcttctg caagatcctg gggccattat cctactccaa gatcaagcag aagctcttta 240

1888

tgtcaatcgc atctcagaaa ccagtcttcc accggatatg tatgaatgtc tacgtgttgc 300
taacgaagtc actcttaatt aatatctgta tcctggaaca atattttatg gttatgtttt 360
tctgtgtgtc agttttcata gtatccatat tttattactg tttattactt ccatgaattt 420
taaaatctga gggaaatgtt ttggaaacat ttattttttt taaaaaaaaa naanaagggc 480
ggccgctcta gaggatct 498

<210> 2534

<211> 429

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (205)

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<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (368)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (371)

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<220>

<221> misc feature

<222> (387)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (414)

<223> n equals a,t,g, or c

<400> 2534

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tgccctgac ccagacctgg gggggctccc actccatgag gtatttcacc acatccgtgt 120
cccggccgg ccgcggggag ccccgcttca tcgccgtggg ctacgtggac gacacgcagt 180
tcgtgcggtt cgacagcgac gccgngagcc agaggatgga gccgcgggcg ccgtggatag 240
agcaggagag gcctgagtat tgggaccagg agacacggaa tgtgaaggcc cactcacaga 300
ttgaccgagt ggacctgggg accctgcgcg gctactacaa ccagagcgag gccggttctn 360
acaccatnca natgatgtat ggctgcnacg tgggggttcgg acgggcgctt cctncgcggg 420
taccaacat 429

1889

<210> 2535

<211> 565

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (263)

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<220>

<221> misc feature

<222> (293)

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<220>

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<222> (383)

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<220>

<221> misc feature

<222> (499)

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<220>

<221> misc feature

<222> (538)

<223> n equals a,t,g, or c

<400> 2535

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cagttagcaa aggaattctt cagtatgata tgtggaatgt tactcctaca gacctatggg 120
actggaaggt tctcaaggag aagattgcaa agtatggtat aagaaacagt ttacttattg 180
ccccgatgcc tacagcttcc actgctcaga tcctggggaa taatgagtc attgaacctt 240
acaccagcaa catctatact cgnagagact tgtcaggaga atttcagatt gtnaatcctc 300
acttattgaa agatcttacc gagcggggcc tatggcatga agagatgaaa aaccagatta 360
ttgcatgcaa tggctctatt canagcatac cataaattcc tgatgacctg aagcaacttt 420
ataaaaactgt gtgggaaatc tctcagaaaa ctgttctcaa gatggcagct gagagaggtg 480
ctttcattga tcaaagccna tctttgaaca ttccacattg cttgagccta aaccttantt 540
tggggggggcc cccaaaaaaa accccc                                     565

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1890

<210> 2536

<211> 185

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (31)

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<222> (168)

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<220>

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<222> (171)

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<220>

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<222> (173)

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<220>

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<222> (175)

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<220>

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<222> (185)

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<400> 2536

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agaacgtctc ggatgctgag agctgttacc ttgtccacac cctgctggag ttctacttga 120
aaactgtttt caaaaactac cacaatagaa cagttgaagt cagggatnct nantncattc 180
tctan 185
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<210> 2537

<211> 575

<212> DNA

<213> Homo sapiens

1891

<220>
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<223> n equals a,t,g, or c

<220>
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<220>
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<220>
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<220>
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<222> (401)
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<220>
<221> misc feature
<222> (439)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (505)
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<220>
<221> misc feature
<222> (507)
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1892

<220>
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<222> (521)
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<220>
<221> misc feature
<222> (531)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (547)
<223> n equals a,t,g, or c

<400> 2537
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gcctgcaaat agcaatgctt ttcccaaaca tgcacataac actgccttct cttaacgaga 120
acctccaaaa taaacaatag tcacccttga cctactaaac agtcatacaca tagagatgag 180
tttttatect caccttcttg cttcttcagt gaacaagtag taacaagcag cttctggatg 240
tgccctngaac tgacttgna taccaatggt tgccaaaaat gnataaagng caaattgaaa 300
aacacaggag actacatcta tatcagtgac acattttctt tcctttctta cagggttttg 360
gaaattggcc atctgcatgg caaagaccga tctttctctg nctcaccaac ctgacaaaaa 420
aggtgtgcca agggacttna tcttacctat cagtgatgac cggggccagca tangtgcttg 480
gggtcaatta cctttggtcg gaacngngca ccactgacat natggctcgg ntggactctg 540
gaaagangaa aatggtggac atgtttgggc ataaa 575

<210> 2538
<211> 628
<212> DNA
<213> Homo sapiens

<220>
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<222> (19)
<223> n equals a,t,g, or c

<220>
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<222> (22)
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<220>
<221> misc feature
<222> (28)
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<220>
<221> misc feature
<222> (574)
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1893

<220>

<221> misc feature

<222> (578)

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<220>

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<222> (580)

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<220>

<221> misc feature

<222> (603)

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<220>

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<223> n equals a,t,g, or c

<400> 2538

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tgcgcgcgcc ccccgatccc gcacccgttc ggcccaggct aagttagccc tcaccatgcc 120
ggtcaaagga ggcaccaagt gcatcaaata cctgctgttc ggatttaact tcatcttctg 180
gcttgccggg attgctgtcc ttgccattgg actatggctc cgattcgact ctcagaccaa 240
gagcatcttc gagcaagaaa ctaataataa taattccagc ttctacacag gagtctatat 300
tctgatcgga gccggcgccc tcatgatgct ggtgggcttc ctgggctgct gcggggctgt 360
gcaggagtcc cagtgcattc tgggactgtt ctccggcttc ctcttggtga tattcgccat 420
tgaaatagct gcggccatct ggggatattc ccacaaggat gaggtgatta aggaagtcca 480
ggagttttac aaggacacct acaacaagct gaaaaccaag gatgagcccc agagggaaac 540
gctgaaagcc atccactatg cgttgaactg ctgnnggntn ggctgggggg cgtggaaaca 600
agnttatctc aagaaaatnt ggccccaa 628
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<210> 2539

<211> 452

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

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<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1894

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<220>
<221> misc feature
<222> (24)
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<220>
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<222> (29)
<223> n equals a,t,g, or c

<220>
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<220>
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<222> (95)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (199)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (206)
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<220>
<221> misc feature
<222> (214)
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<220>
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1895

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<400> 2539

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ctcaccacac tctggagcaa cccggacatg gacactccca cagtggccag ggccccattc 180
tgtctgtggg actgngggnt ctcagnggaa ttgntgcctt tnttgacgtg gagaaatttg 240
ngagacatgt gaaaggagga catggtcaca gtcatggaca tggacacgct cacagtcata 300
cacgtggaag tcatggacat ggaagacnag agcgttctac canggagaag cngatctcag 360
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1896

<210> 2540

<211> 551

<212> DNA

<213> Homo sapiens

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<400> 2540

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acatcaccct ctgtgacttc atcgtgccct gggacaccct gagcaccacc cagaagaaga 180
gcctgaacca caggtaccag atgggctgcg agtgcaagat cacgcgctgc cccatgatcc 240
cgtgctacat ctctccccg gacgagtgcc tctggatgga ctgggtcaca gagaagaaca 300
tcaacgggca ccaggccaag ttcttcgcct gcatcaagag aagtgcggc tcctgtgcgt 360
ggtaccgcgg cgcggcgccc cccaagcagg agtttctcga catcgaggac ccataagcag 420
gccttcaacg cccctgtggc caactgcaaa aaaagccttc aagggtttcg actggtccag 480
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1897

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551

<210> 2541

<211> 669

<212> DNA

<213> Homo sapiens

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1898

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<400> 2541

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gagctgagca ggcggaggcc gacaagaagg cggcggaaga caggagcaag cagctggaag 180
atgagctggt gtcactgcaa aagaaactca agggcaccga agatgaactg gacaaatact 240
ctgaggctct caaagatgcc caggagaagc tggagctggc agagaaaaag gccaccgatg 300
ctgaagccga cgtagcttct ctgaacagac gcatccagct ggttgaagaa gaagtttgga 360
tcgtgcccaa gaancgttct ggcaacagct ttgcagaaac ttggangaag cttgagaagg 420
cagcagatga gagtgagaga ngcatgaaag tcattgagaa gtcgagccca aaaagatgaa 480
gaaaaaatgg aaattcagga gatccaactg aaagaagcaa agccattggt aanatccgac 540
cggaatntna anagggggcc gtaactggca ttattgaaag gactggaact gcaaaagacg 600
gctgactnta aaagnaattgg ccnacttgaa aaaattgaaa ctgggcnaaa ctgancctgg 660
agtttaggtt                                     669
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<210> 2542

<211> 310

<212> DNA

<213> Homo sapiens

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<222> (198)

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ttcgctgcg ccaagctcgc ctgcaccccc tctctgatcc gagctggatc catagtgtgca 180
tacagaccaa tttctgcntc agtgtttata tcgaccagaa gctaataanga ctggaaaagg 240
ctcttncggg atttaatggg gcccaaattg ttttttcttc aanttatccc caagggattt 300
tccaaancna 310

<210> 2543
<211> 553
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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1900

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<400> 2543

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ttggagtgtg ttttcacacct gtttttgaca ctaagcagat acgaaatggt gttaaaagta 180
ttggtgagaa gactgaagct tcgtagtat ggtttactcc tccgagaact tcaaaccagt 240
ggcttgattt ctgggtacgt catcgactcc agtgggtggag aaagtttgcc atgagtccat 300
ctaacttcag cagcagtgac tgtcaggatg aagaaggccg gaaaggaaac aaactttact 360
acaattttcc cctggggaaa ggagttaata gaaaccctgt ggaacctaaag agatccgaac 420
ttttacacat gtatcctggc aatgnggcta aattaccatg gccgaaatgg acgaaaaaat 480
gnggntcctt ggggtcctct ctggaaatgg ggacctanac ccgaggcatg ctgnctaact 540
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<210> 2544

<211> 476

<212> DNA

<213> Homo sapiens

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 caatgctggt caattgaaat gtnataaga attgctcagc agcaganatc ttntggcaaa 180
 gtngnggggg nattccangn nttctcacag ggctctncaa ggaacgatag ctnanaatnc 240
 agagactgac atgcagggtcc ttgaaaaact atctggcaaa cttnttgaaa ganctctgaa 300
 agatttttag atgatacgan ggatgaaant gaaactgaat cctcaaaatt ccnaagtaat 360
 gccttgggac ccccnttact acagtgggtg gattcgtgca gaaaggnta atattgagcc 420
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<210> 2545
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 <212> DNA
 <213> Homo sapiens

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<400> 2545

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ttggggattt cattatatgc agagcagcct gcaaaaaggag aggtgtggag cgaagatgtc 180
cgaaaactgg ctgttgttca tgaatctgaa ggattgttgg ggtacattta ctgtgatttt 240
tttcagcgag cagacaaacc acatcaggat tgccatttca ctatccgtgg aggcagacta 300
aaaggaagat gggagactat ncaactccca gttgtaagtt cttatgctgg aatcttcccc 360
gttcccgnaa gggagttctc caactttggc naangcctgg gcatgatggg aaaacctttc 420
ccagganggg ggac                                     434
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<212> DNA

1906

<213> Homo sapiens

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ccaaccctgg acacgaaggc ccccaccggc cggagAACGA aaccctgggg tcgtctgaag 120
aggaggggcca ggagccccca gggccagaca gcgaagcccc agagctgctg cggagctgaa 180

1907

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caccgaggtc cccaagccct ccgcaaagga cgtggagatc ctggagcaag agagcgaagt 240
cctcgagcca tcagtcgagc aggacgcaga gagccccggg ctgtccacag ctgcgggctt 300
tgagagtccct gagccaggca gagacgaccc tgggcccgtcc gaagcgcaaa gggcggagggt 360
ccaggggcag catccccctc caggccctaa gacctcctnc tccaggtcag gctcgggaagc 420
cccccacctg cgttttccgc cgtgccccga ggctncccag cgtcccccgaggaggcggtt 480
catggagacg cccatcgagc gcgaaatccg ccggagctgc gaacgcnang agaagctgcg 540
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<210> 2547

<211> 331

<212> DNA

<213> Homo sapiens

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<400> 2547

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gggaagctgc tgaaaagggt aaatgtgaac tctcctcatc tgtgcagact gacatcaatt 120
tgccctatct tacaatggat tcttctggac ccaagcattt gaatatgaag ttgaccctgtg 180
ctcaatttga agggattgtc actgatctaa tcagaaggac tatcgctcca tgccaaaaag 240
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<210> 2548

<211> 558

<212> DNA

<213> Homo sapiens

1908

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<220>

1909

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<400> 2548

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gaggtctcca ttaaggtaca gaggtagagt gggagagtgt tgcaagctct agcacagtag 180
ttatattctg cccacaattg ggggggtgaac acaggagaga atcaaaggag gctttgaagg 240
taggagttgg tgcaggcata tcttataccc actgagcaca gctgccaaact gttgcccttt 300
attcgtctat ttctcagact ccacgggtat tcaatacagg gggtgcccct cggatccttg 360
ctttggactg tggcctcaag tataatcaga tcgatgcctc tgcanctgg ggctgangca 420
ctgtngtacc ctgggacatg cactanacag ccaaantttg agggctcttc ttaagtatgg 480
gctggtgacc tgctctattc catgcgnatc cactgancgg tttattganc tatnccgact 540
gntttggact gctggcac 558
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1910

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<220>

1911

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<220>
<221> misc feature
<222> (304)
<223> n equals a,t,g, or c

<400> 2549
gcgactncat tgnngganaga attnaccaag ngtnngcagtn tgcnggnnnc cancacactt 60
tnatnggtgt ttnggacatt tatggtttcg aaacctttga tgtgaacagc tttgaacaat 120
ttgcncccaa attacgctna tgaaaaactg caacaacagt ttaacatgca tgtcttcaaa 180
ctggaacaag aagaatacat gaaggaagat ataccttgga cgctgataga tttttatgac 240
natcaaccag tttttgacct gattgaanca aaatgggaat cctgganttt ctggatnaaa 300
aatntttggt tcc 313

<210> 2550
<211> 505
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c

1912

<220>
 <221> misc feature
 <222> (68)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (103)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (104)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (469)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (474)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (483)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (490)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (496)
 <223> n equals a,t,g, or c

<400> 2550
 agggnaagct ggtacgcctg caggtaccgg tccggaattc ccggggtcgac ccacgcgtcc 60
 gccatnntt ccgctagctt tctccgatta taaacaacac tgnnctgaac atccttgtgg 120
 cacggtcttt gctcacatgc agggttatct tgccagtgtt ggttcctgga aaaaaaatag 180
 ttgggcagag aatgtacaca cttttgggac tcgtaatgcc tctcctggga aaggcggggc 240
 ccgtcttctg ctcccccaac agtgtgggaa acggtaccct ctcccttgct gggcagcaag 300
 cacctcttcc cagtgtctgat ggaatcttgg tgccctctgc cctcagctgc acagaagctc 360
 tgccgcctct tgggactggg ggtgacggat ttctcccgag ccttgctcac ccctcgcac 420
 aaagtggcc gagactatgt gcagaaagcc cagactaagg aacaggtang cggngctggc 480
 gnggggcaan gcacanaaag agccg 505

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1913

<210> 2551
<211> 119
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (96)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c

<400> 2551
ctngaagatt tgcattgactt gctagcttca ttgntgaata atgcatntga tgactatcta 60
aatgccatga tnagtggaggc tccaatgccc atcagntttg ccatgttcct naccatgtt 119

<210> 2552
<211> 411
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<400> 2552

1914

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gaaagtgctg atgaggaatc tggctctgcc tgaggacgtc cgagggaagt gcacgagcct 60
gctgcagctc tatgatgcct ccaacagcga gtggcagctg gggaagacca aggtctttct 120
tcgagaatcc ttggaacaga aactggagaa gcgaggaggaa gaggaagtga gccacgcggc 180
catggtgatt cgggcccatt tcttgggctt cttagcacga aaacaatata gaaaggctct 240
ttattgtgtg gtgataatac agaagaatta cagagcattc cttctgagga ggagattttt 300
gcacctgaaa aaggcagcca tagttttcca gaagcaactc agaggtcaga ttgctcggag 360
agtttacaga caatttgctg gcagagaaaa gggagcaaga anaaaaaaaa a 411

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<210> 2553

<211> 209

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (137)

<223> n equals a,t,g, or c

<400> 2553

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gaacagctta gcaaaggaaa ctttggagcc cctctctcag gcagcctggt tgcttcaggt 60
caagaagacc acagacagtg atgccaaggn gatctacgaa cgctgcacct cactgtctgc 120
tgtgcagatc ataaagntcc ttaattcata cacacctata gatgactttg agaagagagt 180
gactccatcc tttgttcgca aagtacagg 209

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<210> 2554

<211> 603

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (543)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (550)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (575)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1915

<222> (584)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (587)

<223> n equals a,t,g, or c

<400> 2554

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ggcaaaaggt acatcaaggc actggcagaa gaaaacagga atgtggtgga tgggccatac 60
gctggagtca tgacagctta tgatctgaag aaaacccttg ctgtgttatt agataacatt 120
ttgcagcgca ttggcaagtt ggagtcgaag gtggacaatc ttgttgtcaa tggcaccgga 180
acaaactcaa ccaactccac tacagctgtt cccagcttgg ttgcacttga gaaaattaat 240
gtggcagata tcattaacgg agctcaagaa aaatgtgtat tgcctcctat ggacggctac 300
cctcactgtg agggaaagat caagtggatg aaagacatgt ggcgttcaga tccctgctac 360
gcagactatg gagtggatgg atccacctgc tcttttttta tttacctcag tgaggttgaa 420
aattggtgtc ctcatttacc ttggagagca aaaaatccct acgaagaagc tgatcataat 480
tcattggcgg aaattctaca gatttttaat atttcttaca gtatgatgaa aaaagcatga 540
aanaattccn ggtggatgag actacggatc cggcnaaatg gctnacncat ggatccaagc 600
aat 603
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<210> 2555

<211> 471

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (351)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (358)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (363)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (409)

<223> n equals a,t,g, or c

1916

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (439)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (458)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (464)
<223> n equals a,t,g, or c

<400> 2555
gcgtgtcggg acgtgaggag gctctcactt tccgtcatgg cgctgaagga acaaacaatt 60
cctccgtccg ctaagtatgg cgggaggcac acggtgacca tgatcccagg ggatggcatc 120
gggcccagagc tcatgctgca tgtcaagtcc gtcttcaggc acgcatgtgt taccagtgga 180
ctttgaagag gtgcacgtga gttccaatgg ctgatgaaga ggacattccg caatggccat 240
catgggccat ccgcccggaa ccgcgtgggc ccttgaaggg gcaacattcg aaaccaacca 300
ttaaccttgc caccgttcgc acaaattctt gaaacaacat nctttcggca ncagcttngg 360
acntctattg ccaacgttca ttccattggt aagagccttt ccaggcgtng gttgaaccgg 420
gcacaaggac ttngacatnc tcccattggt ccgggganaa caanaggggg a 471

<210> 2556
<211> 322
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c

<220>

1917

<221> misc feature
<222> (257)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c

<400> 2556
gcaatactca tcattaataa tcataatggc tatagcaata aaactaggaa tagccccctt 60
tcacttctna gtcccagagg ttacccaagg caccctcttn acatccggcc tgntttcttct 120
cacatgacaa aaactagccc ccactctcaat catataccaa atctctccct cactaaacgt 180
aagccttctc ctcaactctc caatcttatc catcatagca ggcagttgaa gtggattaaa 240
ccatcccagc tagcanaaat ctnaacttac tcctcaatta cccacatang atgaataata 300
ncagtcctnc cgtacaacct ac 322

<210> 2557
<211> 419
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (254)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (277)
<223> n equals a,t,g, or c

1918

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (407)
<223> n equals a,t,g, or c

<400> 2557
gcaacaatat actctccgga caatgaacca taaccaatac taccaatcaa tactcatcat 60
taataatcat aatgggtata gcaataaaac taggaatagc cccctttcac ttctgagtcc 120
cagagggttac ccaaggcacc cctctgacat cgggcctgct tcttctcaca tgacaaaaac 180
tagcccccat ctcaatcata taccaaactc ctccctcact aaacgtaagc cttctectca 240
ctctctcaat cttntccatc atagcaggca gtttnangtg gattaaacca aaccagctt 300
cgctaaatct tagnatactc ctccaattan ccacatggga atgaaattat agcaggttct 360
tacggttana accctaacat taacngtcct gaattttaac ttntttnttt tatccctga 419

<210> 2558
<211> 491
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c

<220>

1919

<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (251)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c

<400> 2558
gggacaatga accataacca atactaccaa tcaatactca tcattaataa tcataatggc 60
tatagcaata aaactaggaa tagccccctt tcacttctga gtcccanaag ttacccaagg 120
caccctctg acatccggcc tgcttcttct ccatgacaa aaactagccc ccatctcaat 180
catataccaa atctctccct cactaaacgt aagccttctc ctcactctct caatcttctc 240
catcatanca ngcagttgan gtggattaaa ccaaaccag ctacgcaaaa tcttagcata 300
ctcctcaatt accacatan gatgaataat aacagttcta ccgtacaacc ttacataacc 360

1920

attcttaatt taactattta tattatccta actactancg cattcctact aatccactta 420
aatccacan cacgaancta ctactatctc ncaccttaaa aaactttnat taaatacacc 480
cttattcctc c 491

<210> 2559
<211> 290
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (268)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<400> 2559
gaatatactc tccggacaat gaaccataac caatactacc aatcaatact catcattaat 60
aatcataatg gctatagcaa taaaactagg aatagccccc ttctacttct gagtcccaga 120
ggttacccaa ggcacccctc tgacatccgg cctgcttctt ctacatgaa caaaaactag 180
cccccatctc aatcatatac caaatctctc cctcactaaa agtaagcctt ctctcactc 240
tctcaatctt ttccatcttn ncaggctntt anggtggatt naaaccaacc 290

<210> 2560
<211> 566
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c

1921

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (85)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (159)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (223)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<220>

1922

<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (410)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (414)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (486)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (493)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (499)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (554)
<223> n equals a,t,g, or c

<400> 2560
gctcgtgccg aattcggcac gagcttctcc tcaactctctc aatcttatch atcatagcag 60

1923

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gcatttgang tggattaaac caaanccagt tacgcaaaat cttancatac tcctcaatta 120
ccacatanga tgaataatag cagttctacc ntacaaccnt aacataacca ttcttnattt 180
aactatztat attatcctaa ctactaccgc attcctacta ctnaacttaa actccagcac 240
cacgacccta ctactatctc gcacctnaaa caagctaaca tgactaacac ccttaattcc 300
atccaccctc ntctccctag gangcctgcc cccgctaacc ggctttttgc ccaaattgggc 360
cattatcgaa gaattcacga cnaacnatag cctcatcatc cccaccatcn ttgnccacat 420
cacctcctta aactctaatt ctaactacgc ctaatctact ccacctcaat tacacttact 480
cccatntctt aanaacntna aaataaatgg acgttggaac attcaaaaacc caccattctt 540
ccccacactc aanacttaa cacgtt 566

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<210> 2561

<211> 331

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<400> 2561

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gaatcaacac cctcctagcc ttactactaa taattattac attttgacta ccacaactca 60
acggctacat agaaaaatcc accccttacg agtgcggtt cgaccctata tccccgccc 120
gcgtcccttt ctccataaaa ttcttcttag tagctattac cttcttatta tttgatctag 180
aaattgcctt ccttttacc cttaccatgag ccctacaaac aactaacctg ccactaatag 240
ttatgttcat cctcttatt aatcatcatc ctttagcccta antctggcct atganttgac 300
taccaaaagg attagantgg aaccgaattn n 331

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<210> 2562

<211> 539

<212> DNA

1924

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (110)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (136)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (151)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (178)

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<220>

<221> misc feature

<222> (185)

<223> n equals a,t,g, or c

1925

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (273)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (367)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (426)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (434)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

1926

<220>
 <221> misc feature
 <222> (438)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (488)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (500)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (516)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (525)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (538)
 <223> n equals a,t,g, or c

<400> 2562
 ncaaaccta gacaaaacac atngcctacc cctncnttgt actatcccta tgaggcataa 60
 ttataacaag ctccatctgc cnacgacaaa cagacctaaa atcgctcatn gcatactctt 120
 caatcagcca catagnccctc gtagtaacag ncattctcat ccaaaccccc tgaagctnca 180
 ccgngcagc cattctcata atcgcccacg gacttacatc ctcattacta ttctgcctag 240
 caaactcaaa ctacgaacgc actcacaggc gnntcataat cctctctcaa ggacttcaaa 300
 ctctactccc actaatagnt ttttgatgac ttctagcaag cctcgctgan ntcgncttac 360
 ccccantga ttaacctact gggagaactc tctgtgctag taaccacgtt ctctgatca 420
 aatatnactc tccngntnac aggactcaac atactaatcg cagggcctgg tgctccctct 480
 aacatatntc gcacaaacgn aaatgggggg gtcaantcac ccaanccaca tttgaacng 539

<210> 2563
 <211> 453
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (17)
 <223> n equals a,t,g, or c

1927

<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (187)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c

<220>
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<220>
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1929

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<220>
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<220>
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 <222> (427)
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<220>
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 aaaactaagn cccccaatct caattcanta ttacccaaaat tcttcttccc ctccaactta 180
 aaaacgntta angcccnttc cttccctcca acttcccttct tcnaaattcc ttaattccc 240
 attccaatta agccaagggg gcnnngntttg aaaagggttg gggaatttna aaaaccccaa 300
 aaanccccc aagcntttnc ccgccaaaaa aattcctttt aannccaatt aacctncccc 360
 tnccaaattt ttaacccccc nccctttttg gggnaattgn aaaantttta ntaangcca 420
 aggtttcccc ttaccgggt ttacccaaaan ccc 453

<210> 2564
 <211> 527
 <212> DNA
 <213> Homo sapiens

<220>
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1930

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<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (154)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (183)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (224)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (232)

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<220>

<221> misc feature

<222> (262)

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<220>

<221> misc feature

<222> (264)

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<220>

<221> misc feature

<222> (280)

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<220>

<221> misc feature

<222> (282)

<223> n equals a,t,g, or c

1931

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<222> (350)
<223> n equals a,t,g, or c

<220>
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<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
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<220>
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<222> (380)
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1932

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<220>
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 <222> (505)
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<220>
 <221> misc feature
 <222> (516)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (518)
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 gtatgtggta ggctggcan ggaatgcaat tctcagagaa gacaaagacc cgcaaaagat 120
 gtatgccacc atctatgagc tgaaagaaga caanagctac aatgtcacct cegtctgtt 180
 tangaaaaag aagtgtgact actggatcan gacttttgtt ccangttgcc anccggcgga 240
 gttcacgctg ggcaacatta ananttacc c tggattaacn anttacctcg tccgagtngt 300
 gancacaact acnaccagca tgctntggtg ttcttccaaa aaatttctcn aaacanggaa 360
 ttcttccana tcaccctcn ggaaaaacca ngaacttgac ttccggaact taaaggaaaa 420
 acttctctcc cctctctcca attctcctgg gcccccttaa aaaccactct ccttcccttt 480
 tcccatteca acantttttt naaanggtga attttnangt ttcccc 527

<210> 2565
 <211> 547
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (24)
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<220>
 <221> misc feature
 <222> (66)
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<220>
 <221> misc feature
 <222> (377)
 <223> n equals a,t,g, or c

1933

<220>
 <221> misc feature
 <222> (415)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (490)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (493)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (503)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (521)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (537)
 <223> n equals a,t,g, or c

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 ggaaanaagg acatctggtg ctggagggtc tgagtggggt ccagggggccc caggcaggcc 120
 aggagggaca gcctggtgtc agctcaggga gaaggcccag gcccatctcg gctgggtggg 180
 gtagggcccc tccaggtagt gggggatgag ctgtcacggg ttgggccgga ctgagagcaa 240
 cagaacctg ctgctgccct ggccccacct tgtccagcac aggaggcca agcctgggtt 300
 gtctccccctc tcaccacccc atctctccct cccaaggaaa aagaagtgtg actactggat 360
 caggactttt gttccangtt gccagcccg gtagttcacg ctgggcaaca ttaanagtta 420
 ccctggatta acgagttacc tcgtccgaat ggtgagcacc aactacaacc agcatgctat 480
 ggtgttcttn aanaaagttt ctnaaaacag ggaagtactt naagaacacc ttttacngga 540
 gaaccaa 547

<210> 2566
 <211> 593
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (4)
 <223> n equals a,t,g, or c

1934

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<400> 2566

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agtggatccc ccgggctgca ggaattcggc acgaggggtc ccgggcgcgt ttcgggtgct 120
ggcggctgca gccgagttca aacctaagca gctggaaggc ccctgtggct aggtaccata 180
gagtctctac acaggagtaa atcagcctgg tgtgcagggg aggcagacac acaaacagaa 240
aattggacta cagtgctaag atgctgtaag aagagggtta ctaaaggaca ggaagatggg 300
gccaagagat ggtgctactg tctactttag ggatcgtctt tcaaggcgag ggcctccta 360
tctcaagctg tgatacagga accatggcca actgtgagcg taccttcatt gcgatcaaac 420
cagatggggg ccagcggggg cttgtgggag agattatcaa gcgttttgag cagaaagggt 480
ccgccttggt ggtctgaatt catgcaagct tccgaagatc ttctcaagga acactacgtt 540
gacctgaagg accgtccatt ctttgccggc ctggtgaaat acatgcactc agg 593
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<210> 2567

<211> 416

<212> DNA

<213> Homo sapiens

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<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

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<222> (396)

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<222> (397)

<223> n equals a,t,g, or c

<400> 2567

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taaaggcttt gaaaatgtaa tccatgacaa attgcctctc caagaaagtg aagaagaaga 120
```


1935

```

gagggaggag aggtctggcc tccaactaag tcttgaacaa ggaactgggtg aaaactcttt 180
tcgaagcctg acttggccac cttcgggttc cccatctcat gctgggtacaa cccacactga 240
aaatggactc tcagagcacc cctgtgaaac agaacagata aatgcaaaga gaaaagatac 300
aaccagtgac aaagatgatt cgctaggaag ccaacaaaca aatgaacaat gtgctcaaaa 360
agctnagccn acagaagtct gcgaaccaat tgnttnncca agtgaaatat ggggat      416

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<210> 2568

<211> 441

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (147)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (174)

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<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<400> 2568

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gtggatcccc cgggctgcag gaattcggca cgagattccg tcctgcgcgg ttgttctctg 120
gagcagcggt cttttatctc cgtcggnctt ctctcctacc taagtgcgtg ccgncaccgc 180
atggaagatt cgatggacat ggacatgagc cccctgaggc ccagaaacta tcttttcggt 240
tgtgaactaa aggccgacaa agattatcac tttaaggtgg ataatgatga aaatgagcac 300
cagttatctt taagaacggt cagtttaggg gctggtgcaa aggatgagtt gcacattggt 360
gaagcagagg caatgaatta cgnaggcagt ccattaaagt aacactggca actttgaaaa 420
tgtctgtaca gccaacggtt t                                     441

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<210> 2569

<211> 520

<212> DNA

<213> Homo sapiens

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1936

<220>
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<222> (445)
<223> n equals a,t,g, or c

<220>
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<222> (451)
<223> n equals a,t,g, or c

<220>
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<222> (489)
<223> n equals a,t,g, or c

<220>
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<222> (494)
<223> n equals a,t,g, or c

<400> 2569
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aaagggtcaaa atcaagacta tagaggtgga aagaatagca cttggagtgg tgaatcaaaa 120
actctggttt taagcaacct ctctacagt gcaacagaag aaactcttca ggaagtattt 180
gagaaagcaa cttttatcaa agtaccacag aacaaaaatg gcaaattctaa aggggtatgca 240
tttatagagt ttgcttcatt cgaagacgct aaagaagctt taaattcctg taataaaaagg 300
gaaattgagg gcagagcaat caggctggag ttgcaaggac ccaggggatc acctaatagcc 360
agaagccagc catccaaaac tctgtttgtc aaaggcctgt ctgaggatac cactgaagag 420
acattaaang gagtcatttg acggnntccg ntccgggcca aggatagttt actggccccg 480
ggaaaactng ggtncctccc aaaggggttt tgggtttttg 520

<210> 2570
<211> 416
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<222> (149)
<223> n equals a,t,g, or c

1937

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<222> (222)
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<220>
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<222> (228)
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<220>
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<222> (266)
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<220>
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<222> (290)
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<220>
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<222> (296)
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<220>
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<220>
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<220>
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<222> (368)
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<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<220>

1938

<221> misc feature
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (413)
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<400> 2570
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tcgccgggct gccgcgctg ggcttcaccg gcgccggcat cgcggccaac tcggtggctg 120
cctcgctgat ganctggctt gcgaccta atgggggcgg cgtgcccgcc ggggggctag 180
tgccacgct gcagagcctc ggggctggtg gcagcaaagt cntcatangt aatattggtg 240
ccctgatggg ctacgccacc cacaantatc tcgatagtga ggaggatgan gaganccag 300
cagctnccan aacctcttct tccttcttgg cctaactctt ccagntagga tctagaactt 360
tgcctttnat ttttttttta ttttttttg aaanangggt ctactatat tgnacg 416

<210> 2571
<211> 432
<212> DNA
<213> Homo sapiens

<220>
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<222> (50)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (213)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (254)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (273)
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<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (346)

1939

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (409)

<223> n equals a,t,g, or c

<400> 2571

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agggagcaac ggcaagaaag aagtgtctgag cggtttccaa gtggtgctgg aagacacagt 120
gcttttccct gagggcgggg gacagcctga tgaccgtggt acaatcaatg acatctctgt 180
gctgagagtg actctgtgct gagagtgact cgnctggggg aacaggctga tcatttcacc 240
cagacacccc tggntccagg aagccagggt ctngtccgng tagattggga gcggagggtt 300
gaccacatgc agcagcattc agggcagcat ctcatcacgg cagttmntga ccatctattt 360
aagctgaaga caacatcatn ggagttaggg agatttcgga gtgcgattna gctggacacc 420
ccctctatga ct 432
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<210> 2572

<211> 693

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (114)

<223> n equals a,t,g, or c

<220>

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<222> (510)

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<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (614)

<223> n equals a,t,g, or c

1940

<220>
<221> misc feature
<222> (635)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (663)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (687)
<223> n equals a,t,g, or c

<220>
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<222> (688)
<223> n equals a,t,g, or c

<400> 2572
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tcaaaaaaac ccactgaaat tgggagagct tcaaggaaac cacttcactg ttgntctcag 120
aaatataaca ggaactgatg accaagtaca gcaagctatg aactctctca aggagattgg 180
atttattaac tactatggaa tgcaaagatt tggaaccaca gctgtcccta cgtatcaggt 240
tggaagagct atactacaaa attcctggac agaagtcacg gatttaatat tgaaaccccg 300
ctctggagct gaaaagggt acttggttaa atgcagagaa gaatgggcaa agaccaaaga 360
cccaactgct gcctcagaaa actacctgtc aaaagatacc cagaaataat cgcttaatgt 420
atattcatag ctaccaaagc tatgtgtgga ataacatggt aagcaagagg atagaagact 480
atggactaaa cctgttccag gggacctcgn tctcaaagga cccagcccc tatattgagg 540
aagatgatgt aataattact ctatncatga tgtgggaatg ccttgccctgg ttctgatggt 600
atctaccca agcnttaaaa ttcaagaagc ctacngggaa atgctcccag ttgacaatct 660
ganatggcca cctgagaccc aaaatcnnaa ttt 693

<210> 2573
<211> 407
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (276)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (296)
<223> n equals a,t,g, or c

<220>

1942

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (363)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (379)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (389)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (397)

<223> n equals a,t,g, or c

<400> 2574

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ggcanagnaa acagaaaact gcaaaatatt gatgacaaaa attaaagaag acataaataa 60
atggagaaat ataccatgct catggattgg aagacttaca ttgctaaact gtcacttctc 120
cccagatgga tctacagagt ccacataatc tcacttaaaa ctccagaaga aatttttatg 180
aaagttgaca gctgattcta aaattttaca tagaaatgca aaggtctccg aatagtcaaa 240
acaattagga aaaggaaaaa caagttggaa gacttacttt ccggctgggt taaaggtgga 300
ctacacagtt acagtaatca gataggttgg tattaggttg gacagttggt tcattggatt 360
ggntgcgggt tttggattng acncacacng aattgtncct tggtttttta atagt      415

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<210> 2575

<211> 193

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (157)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (172)

<223> n equals a,t,g, or c

1943

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 <222> (187)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (191)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (192)
 <223> n equals a,t,g, or c

<400> 2575
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 ccggatggtg aaatcctccc tgcagcggat cctcaatagc cactgcttcg ccagagagaa 120
 ggaaggggat aaaccacgcg ccaccatcca cgccagncgc accatgccgc tnctaagcct 180
 gcacagnccg nng 193

<210> 2576
 <211> 469
 <212> DNA
 <213> Homo sapiens

<400> 2576
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 tccccatca ccccaacctc cagggaaaat tgagatcaaa attgtccgcc catgggctga 120
 agggactgaa gaggggtgcac gttggctgac tgatgaggac acgagaaacc tcaaggagat 180
 cttcttcaat atcttgggtgc cgggagctga agaggccagc aaggaacgcc agcggcagaa 240
 agagctggag agcaattacc gccgggtgtg gggctctcca ggtggggagg gcacagggga 300
 cctggacgaa tttgacttct gagaccaaac agcagagtgg agctgagctg tggacctctc 360
 gggcaactct gtgggtgtgg gggccctggg tgaattctgc tgcccctgct ggcagccacc 420
 ttgagacctc accgggcctg tgattttgct ctctgaact ctactcaa 469

<210> 2577
 <211> 347
 <212> DNA
 <213> Homo sapiens

<400> 2577
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 agatatgtct ataagggtgaa gattcttttc ttaggtatac aaatgtgatg ttgtatataa 120
 atgggcttcc caccacaaaa tgcttattag cctaaaatgg cctgaaagct ctagtaatta 180
 aattatttct ctgcgtccta attttttgtc tttgaaacag attattttag aaatcatgta 240
 cttegcctta gtttctaact tttacttgct tttccagag ttatttatac caaatcctac 300
 aggggattgt gttttgtcac tctagaagag ttcttcacag agactta 347

<210> 2578
 <211> 330

WO 01/22920

1944

<212> DNA
 <213> Homo sapiens

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<220>
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<220>
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<220>
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<220>
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 <222> (290)
 <223> n equals a,t,g, or c

<220>
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 <222> (330)
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<400> 2578
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 atctatgggg agaaatttga agatganaac ttcatectaa agcatacggg tcctggcatc 180
 ttgtccatgg caaatgctgg acccaacaca aatgggtccc agtttttcat ctgcactgcc 240
 caagactgat tggttgggat ngccaacatt tgnnttttg ggcaaagttn aaaagaaagg 300
 catgaatatt gttggaaagg ccatggaacn 330

<210> 2579
 <211> 323
 <212> DNA
 <213> Homo sapiens

<220>
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1945

<220>
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<222> (99)
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<220>
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<222> (103)
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<220>
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<220>
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<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<220>
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<222> (193)
<223> n equals a,t,g, or c

<220>
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<222> (215)
<223> n equals a,t,g, or c

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<220>

1946

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<220>
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 <222> (294)
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<220>
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 <222> (296)
 <223> n equals a,t,g, or c

<220>
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 <222> (315)
 <223> n equals a,t,g, or c

<400> 2579
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 cctggtggac tacaccctgt caancccgagc acgtgctgnt ganacancca gaaccgcgcg 120
 cgggacgcac tgangagggc cntnagtcag tacctgacgg acaggggttcn ctggagggac 180
 tgaagacggc cnggccacc atggcggcac aacanccccc gatacccatg ccagtgtgtg 240
 tgccaaggat cancggtcac cacccatgac tgctgccctc ggcacanggg cctngnccac 300
 tggatgtgac cttcntccat cat 323

<210> 2580
 <211> 546
 <212> DNA
 <213> Homo sapiens

<220>
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<220>
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 <222> (301)
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<220>
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1947

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<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (508)

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<220>

<221> misc feature

<222> (510)

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<220>

<221> misc feature

<222> (514)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (521)

<223> n equals a,t,g, or c

<400> 2580

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gnnttgggggt catccctttt ggccacaaag tcactggcca tgtgctgcac atcctcctca 60
agatgacatt catcgtccaa cgaccggtgg ctgctgctcc cttaggctct cccaaccaca 120
gtttctccca attgctccaa atattcctca gccagcagg tgggggaaat ggccaagggg 180
tctgtaactt cagaaatgaa tgattgggac cagtctgtct cattataatc ctgaattaca 240
tccacagcat ctccagctgc aagtcactct gggcccagtt ctgagacaag gccaaagtcgg 300
ncacaccagg ggctctctgg ggagcctgga ggaagtttga ctcttnagtc tgctgcatct 360
cagccaggag ttcattccatc ttcaagggtct gaggggcacg ggatacaagg gtacactgtg 420
gtcctgcagg aattnaccca ccaattcatc ttnagaagct actcccaaag gctttggaga 480
ctgcctcaga ggctggggct cggaggcngn gcanggggtca ngcgtcaggc cttagtgctt 540
ctgctg
546

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<210> 2581

<211> 478

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (313)

1948

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<221> misc feature

<222> (316)

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<220>

<221> misc feature

<222> (335)

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<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

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<220>

<221> misc feature

<222> (365)

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<220>

<221> misc feature

<222> (395)

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<220>

<221> misc feature

<222> (438)

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<220>

<221> misc feature

<222> (442)

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<220>

<221> misc feature

<222> (454)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (459)

<223> n equals a,t,g, or c

1949

<400> 2581

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gggcccagcc gggagcagcc tctttcgaag gccgccgtga cctcttcaag ggcgtggaga 120
cggaagaa aaggccccgg ttgggggtcc agggcgccgg taacgttaac cggcgccctg 180
cctgtcctct aaccgtcgct ccctcctccc ctagaaagat gttctcgctc gtggcgccacc 240
tggcgcgggc gaaccccttc aacacgccac atctgcagct ggtgcacgat ggtctcgggg 300
acctccgcag canctnccca gggcccacgg gccancccg ncgcctcgca acctgcagcc 360
gncgncgtgg aagagtacag ttgtgaattt ggctncgcga agtattatgc actgtgtggc 420
ttttggtggg gtcttaantt gnggtctgac acanactgnt ggggttcccc tggattta 478
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<210> 2582

<211> 340

<212> DNA

<213> Homo sapiens

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<222> (10)

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<220>

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<222> (123)

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<222> (216)

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<220>

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<222> (262)

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<222> (301)

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<220>

<221> misc feature

<222> (315)

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1950

<220>

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<222> (338)

<223> n equals a,t,g, or c

<400> 2582

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accactgact tcattttcaa cctgtactct gaggagggga agggcatctt cgacagcagg 120
aanaatgtgc ttggtcacat gcagcagggt gggagcccaa ccccatattga taggaatttt 180
gccactaaaa tgggcgccaa ggctatgaac tggatntctg ggaaaatcaa aaaaaattac 240
cgtaatgggc ggatctttgc cnatactcca natccggctt tggttcttggg atacttaaaa 300
ngcctggtct tccancagtg gctgactgaa agacaacnat 340
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<210> 2583

<211> 462

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (275)

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<220>

<221> misc feature

<222> (324)

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<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (356)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (397)

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<220>

<221> misc feature

<222> (399)

1952

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<222> (8)
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<220>
<221> misc feature
<222> (20)
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<222> (62)
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<220>
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<222> (81)
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<220>
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<222> (95)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (108)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (127)
<223> n equals a,t,g, or c

<220>
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<222> (137)
<223> n equals a,t,g, or c

<220>
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<222> (149)
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<220>
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1954

<221> misc feature
<222> (434)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (449)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (464)
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aaaccctgtc ctccagtggc gaaagctggg agactctgcc ggggaaagaa gagcgggaac 120
ctccacaggc taagggtgagt gccagcactg gcaccagccc tggccccggt gctagtcca 180
gtgccggggc tggcgccggg gccaatgctg gcagcaatgg cagcaattac cttgaagaag 240
ttcgagaacc atctcttcag gaagagcagg catccctgga agaaggagaa attccttggc 300
tccagtacca tgagaatgac agtagcagtg agggggataa tgattctggt cacgagttga 360
tgcaacctgg ggtattcatg ctggatggaa acacaacctt gaagatgact tcagtgtgan 420
cgaagaccta naantggatt ggaaccttnt tgatggattt gcanatgggt taagggaatgg 480
ct 482

<210> 2587
<211> 478
<212> DNA
<213> Homo sapiens

<220>
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<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (434)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (447)
<223> n equals a,t,g, or c

<220>
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<220>

1955

<221> misc feature
<222> (460)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c

<400> 2587
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gtgcccacag agccctgtga ggatgctgag gatgactgcg gaaatgactt tcaatgcagt 120
acaggcagat gcataaagat gcgacttcgg tgtaatggtg acaatgactg cggagacttt 180
tcagatgagg atgattgtga aagttagccc cgtccccctt gcagagacag agtggttagaa 240
gagtcctgagc tggcactaac agcaggctat gggatcaaca ttttagggat ggatccccta 300
agcacacctt ttgacaatga gttctacaat ggactctgta accgggatcg ggatggaaac 360
actctgacat actaccgaag accttggaac gtggcttctt tgatctatga aaccaaaggc 420
gagaaaaatt tcanaaccga acattcnaa aacaaattgn ancatttaaa agtatcat 478

<210> 2588
<211> 422
<212> DNA
<213> Homo sapiens

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<222> (391)
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<220>
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<222> (392)
<223> n equals a,t,g, or c

<220>
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<222> (394)
<223> n equals a,t,g, or c

<220>
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<222> (402)
<223> n equals a,t,g, or c

<400> 2588
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1957

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (408)

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<220>

<221> misc feature

<222> (441)

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<220>

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<220>

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<222> (468)

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<222> (513)

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<220>

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<222> (514)

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1958

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<222> (523)
<223> n equals a,t,g, or c

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<222> (526)
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<220>
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<222> (528)
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<222> (550)
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<220>
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<220>
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<222> (563)
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<220>
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<220>
<221> misc feature
<222> (627)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (647)
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<220>
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<222> (669)
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1959

<220>

<221> misc feature

<222> (670)

<223> n equals a,t,g, or c

<400> 2590

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tggtggctgg aattccacgc accgatcagt actgggaaaa gatctaattc gccgtgggcc 120
tgtcgtgccg gtcctggggg cgagatcggg gtagaaatgc attttattct ttaagttcac 180
gtaagataca agtttcaggc agggctctgaa ggactggatt ggccaaacat cagacctgtc 240
ttccaaggag accaagtcct ggctacatcc cagcctgtgg ttacagtgcg gacaggccat 300
gtgagccacc gctgncagca cagagcgtnc ttccccctgt agactgggtg ccaactcctg 360
gaacactgac tgtggccccc ttctgtgatcc atncatcttc agggagcnag acatatgacg 420
caggaatgga aagcggagtt nctaacagga tgaaagtcc ccatcantt cccccantnc 480
cttcaagcaa gtanctttcc acatttgtca cannaaatta tangananat ggggtgttggg 540
agcccttttn gagaacncca gtntttccag gcccttgcg ttatcgagtt ttgcaatggg 600
tacaancttt ttgatctgtg ttcaccntga attcttttaa tataaanttt ctttttctct 660
ctttatctnn tt                                     672

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<210> 2591

<211> 322

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<220>

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<222> (9)

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<220>

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<220>

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1960

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<220>
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<222> (176)
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<220>
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<220>
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1961

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<220>

<221> misc feature

<222> (308)

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<220>

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<222> (320)

<223> n equals a,t,g, or c

<400> 2591

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cncatatchnn agccccagca gcancgccc aagcaacccc aataacaacg ccatggcccg 60
gtggaaacgc ctacatcgac aacctcangg cggacgggga cctgtnagaa cgcggcacgc 120
tggtctacaag gactcgccnt ccgtctggcc gccntccccg gnaaacgtnc ntaaaanttaa 180
cncaagctga agtgggtgtcc tgggttgga aaaccggcaa gttttacttt aatggctgac 240
actttggggg ccagaaatgt tcggttnatc ccggaattaa ttggttncaag aatgggggaa 300
attnaccntg gaattttttt tt                                     322
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<210> 2592

<211> 518

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (456)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (510)

<223> n equals a,t,g, or c

<220>

1962

<221> misc feature

<222> (514)

<223> n equals a,t,g, or c

<400> 2592

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tgccattca gacccggggt ggcccagaaa agcatgaagt aactggctgg gtgctggtat 120
ctcctctaag taaggaagat gctggagaat atgagtgcc tgcattcaat tccaaggac 180
aggcttcagc atcagcaaaa attacagtgg ttgatgcctt acatgaaata ccagtgaata 240
aagggtgaagg tgccgagcta taaacctcca gaattattt agtctgcatg gttaaaagta 300
gtcatggata actacattac ctgttcttgc ctaataagtt tcttttaata caatccacta 360
acactttagt tatattcact gggttttacac agagaaatac aaaataaaag atcacacatc 420
aagactatct acaaaaattt tattatatat ttacngnaa gaaaagcct tgcnttatca 480
ttaaaccaat taaaaatacc ttttttattn acancccc 518
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<210> 2593

<211> 536

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (412)

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<220>

<221> misc feature

<222> (418)

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<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (469)

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<220>

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<222> (488)

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<220>

1963

<221> misc feature
<222> (506)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (508)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (520)
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<400> 2593
accaaactga gtgtgtgtgt gtgtgtttat tgggggtgtgg catgaggcga gtgtgtaaga 60
cagagagcaa aagagctaca gaggccactc taagcagcag catcatgtga ccactaaaga 120
tttacacctg aaactaaata cagaatgttc tatctctaca gattccaaag gttttcctaa 180
aaatataacc aacaacaggg ggaaaaaaag ataccagat tccaaggacc tcacgatggg 240
gctgaaaacc tatgacacca gcttcctgga ctttctccag aagggtgttg gtatggggaa 300
cctttctctt tcgcatggac ccgaggacca ggccctccaa gcatggcttg ggattcctc 360
agtcttcggg aacctccaag ccacagccca ggccccagac cctggaggga antccantt 420
cctttttnc cctcttgagg acaagggaag ggacaagggt tccagggtng tcattcactc 480
ggagcagnaa aggcagatgg agattnancc aaagggattn ccaggggaaa ccaaag 536

<210> 2594
<211> 388
<212> DNA
<213> Homo sapiens

<220>
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<222> (6)
<223> n equals a,t,g, or c

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<220>
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<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>

1964

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<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c

<220>
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<222> (388)
<223> n equals a,t,g, or c

<400> 2594
gggtgnatgg ggtatttcac cacgtggngc tggctacaca tttggacaag acattttctga 60
aacctttaac catgccaatg gtctcacact ggtttctcgt gccaccagc ttgtaatgga 120
gggatacaat tgggtgtcatg atcggaatgt ggttaccatt ttcagtgcac ccaattactg 180
ttatcgttgt gggaaccagg ctgctatcat ggaattagat gacactttaa aatattcctt 240
ccttcaattt gaccacgcgc ctgctcgtgg tgagcctcat gttacacggn gcacccaga 300
ctacttccta taaatttctc ctgggaaacc tgcctttgna tgtggaagta tacctggntt 360
tttaaaatat atgtatttaa aaacanan 388

<210> 2595
<211> 418
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (315)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (372)
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<220>
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<222> (387)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)

1965

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<400> 2595

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ggggactcct gacatagcca gctgctgtga aataatggaa gagcttaca cctgccttaa 60
aaattaccga aaaaccttaa tacatagctg cttgtctcct actatacctg tctgacacaa 120
tatcaccaga gcaagccata gacagcctgc gagacctaa aggatccggg gcaatacaga 180
ccatcaagca atacaattat cttcatgagt ttcgggacaa attagctgca catctatcat 240
caagagattc acaatcaaga tctgtatcaa gataaaggaa ttcaaatagc atatatatga 300
ccatgtctga aatgncagtt ctctacataa tttggattga aatgaaacca ccagtgggat 360
caacttgaat gnaaatgtcc tgtgccnata ttcctaaggt ttattgcca aaaaannn 418
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<210> 2596

<211> 444

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (439)

<223> n equals a,t,g, or c

1966

<400> 2596

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gggcgccgag ccgcggtccg agcagaactg gggctccctt gcattctcca gttacaaatt 60
cagtgccttc tgcagtttcc ccagagctcc tcaagaataa cggaagggag aatatgacag 120
atacctagca tctagcaaaa taatggcagc tgcttacctt gaccccaact tgaatcacac 180
accaaattcg agtactaaga ctcacctggg tactgggatg gaacgttctc ctggtgcaat 240
gggagcgagt attaaaggtc tttcattatt ttgaaagcaa tagtgagcca accacctggg 300
ccagtattat naggcatgga gatgctactg atgtcagggg catcattcag aagatagtgg 360
acagtcacaa antaaagcat tgtggngctgc tatggattcc cgcctcagtc ccttgcnctc 420
agatngaagg ttcactggnt tcac                                     444

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<210> 2597

<211> 362

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (320)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (329)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<220>

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<222> (358)

<223> n equals a,t,g, or c

<400> 2597

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ggagaagctt ccaggaatac atggcccaaa tggagaagaa gttggaggag gaaagggaaa 60
accttctcag agagcatgaa aggctgctaa aacacaagct gaaggtacaa gaagaaatgc 120
ttaaggaaga atttcaaaag aaatctgagc agntaaataa agagattaat caactgaaag 180
aaaaaattga aagcactaaa aatgaacaag ttaaggctct taaagatcct tgacatggct 240
agcaacataa tgactgtcac tctacctggg gctttcaagc tacttggagt agggacaaaa 300

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1967

tgatcttggc tnacgtattn aagagcctna atattccagt taagaaantt ataatatnag 360
gt 362

<210> 2598

<211> 460

<212> DNA

<213> Homo sapiens

<220>

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<222> (312)

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<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (397)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (451)

<223> n equals a,t,g, or c

<400> 2598

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gatggataag ctggtggtgg agtacgcaa cgccatttgc caatgggagc gtaacaagtt 120
gcagtgtctc gacacggagc aggtggaggc cgacctggag tgaggcctcc ggactctggc 180
acgtcccaac agccctcctc tggaagctgc gtccctcac cccctgtttc aggtctccca 240
tctccctcag tgacctggat ctgacctcac accatcagca gggggcaccc accatgcaca 300
cctgtctcgg antaagcaac tcttctctggg gntccaggc tatttttgtt gcttaattac 360
tggttttctc cattgcattg ttaggcattg tgacaantga cagaattctt gcctcttgtc 420
cagtttcaac atctggttgc ttttaaccaa ntacatctag 460

<210> 2599

<211> 371

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (154)

1968

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (231)

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<220>

<221> misc feature

<222> (361)

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<400> 2599

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tttcctggcc gccagaagat ccacatctca aagaagtggg gcttcaccaa gttcaatgct 120
gatgaatttg aagacatggt ggctgaaaag cggncatgcat cccagatggc tgtgggggtca 180
agtacatccc cagtcgtggg ccctctggga caagtggcgg gccctgcact ncatggaggg 240
ctttccaatg tgcttgcccc cctcttgaat acttcaccaa taaaattcta atttcctgtt 300
ccaaaaaaaa aaaaaaaaaa aattccgggg gggggcccgt aaccatttg gcccttagg 360
nggttgtttt t 371
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<210> 2600

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<220>

<221> misc feature

<222> (144)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (147)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (288)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (289)

<223> n equals a,t,g, or c

1969

<220>
 <221> misc feature
 <222> (292)
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<220>
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 <222> (304)
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<220>
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<220>
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<220>
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<220>
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 <222> (379)
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<220>
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 <222> (399)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (406)
 <223> n equals a,t,g, or c

<400> 2600
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 gctagtggag ttgtatcgct caactaaaag attgaaggat gctgtggccc actgccatga 120
 ggcaagaagg aacatagctt tgcntncaa gtttagagtg gaattcgtgt gttgtacaga 180
 cccttaagtt ttgatagtgc tcttcagtct gcgaaatctt ctttgggtgg aaatgaatga 240
 actgtgcagc taactttctt agaaatgaaa aggacatttc tatatgttng cnggttctct 300
 ggtntcttga agntgggtcc agcatggtaa taatgttcca atggcgagct ctttctgagc 360
 tggngggcctt tngtctatnt catagcattt cagtaagtnt tcccantgta gggggg 415

<210> 2601
 <211> 251

1970

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (221)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (230)

<223> n equals a,t,g, or c

<400> 2601

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caccgggggtt gactccgggg gcgcggcgag gagagacatg aggctgagct gggtccgggt 60
cctgacagta ctgtccatct gcctgagcgc cgtggccacg gccacggggg ccgagggcaa 120
aaggaagctg cagatcgggg tcaagaagcg ggtggaccac tgtcccatca aatcgcgcaa 180
aggggatgtc ctgcacatgc actacacggg gaagctggaa natgggacan agtttgacag 240
cagcctgccc c 251
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<210> 2602

<211> 517

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (97)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (113)

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<220>

1971

<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (147)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (167)
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<220>
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<220>
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<222> (176)
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<220>
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<222> (181)
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<220>
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<222> (185)
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<220>
<221> misc feature
<222> (189)
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<220>
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<222> (194)
<223> n equals a,t,g, or c

<220>
<221> misc feature

1972

<222> (219)
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<220>
<221> misc feature
<222> (223)
<223> n equals a,t,g, or c

<220>
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<222> (226)
<223> n equals a,t,g, or c

<220>
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<222> (277)
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<220>
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<222> (288)
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<220>
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<222> (322)
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<220>
<221> misc feature
<222> (324)
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<220>
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<222> (326)
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<220>
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<222> (367)
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<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c

<220>
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1973

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<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

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<220>

<221> misc feature

<222> (459)

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<220>

<221> misc feature

<222> (492)

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<220>

<221> misc feature

<222> (515)

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<400> 2602

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gaggtcccc tncctactaa gtgcctcttt gcatagnacc agtccccacc cgnacggtct 120
ctggaccact acagntgnac gggcaanggc gggtcgggga ggcgcacacg gncccnatgg 180
nccanctgnt gggnacaaaga tctgtcaatt taagctggnt ctncctngggg agtcttcggt 240
aggcaaattcc agccttgctc tccgcttttt caagggncaa ttttacnggt accacgagag 300
cacaatttga gcgggctttc tnananagac ttttttcctt ggtgcaaaaa cagtcaaagt 360
tttaganttg gncaaaaatt ggcaaagagc ggtttanagc ttgcccccat gtatttttgg 420
gggcccagtt tcctctngct ttttaatacc acacagtnna ttttaagggc cagaattggt 480
taagggtcta anggaagcca cccacaatgt aattnaa 517

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<210> 2603

<211> 505

<212> DNA

<213> Homo sapiens

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<220>

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<222> (13)

1974

<223> n equals a,t,g, or c

<220>

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<222> (29)

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<220>

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<222> (30)

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<220>

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<220>

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<222> (306)

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<220>

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<222> (387)

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<220>

<221> misc feature

<222> (389)

<223> n equals a,t,g, or c

1975

<220>
<221> misc feature
<222> (392)
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<220>
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<220>
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<220>
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<220>
<221> misc feature
<222> (483)
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1976

<220>
 <221> misc feature
 <222> (492)
 <223> n equals a,t,g, or c

<220>
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 <222> (498)
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<220>
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 <222> (500)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (503)
 <223> n equals a,t,g, or c

<400> 2603
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 ttctaaagaa aaactagggga tttagaggac gtttgggcac tgaacgcaan tttctgcata 120
 ggaaacctag gngatccccc aaaagaggtc cctctggtag gccctcgaga tgctgctggc 180
 ggcctggggg aaatcctcat tgacgattca atttggtgaa ggccaatttg tggactccta 240
 cgatccaacc atagaaaaca cttttacaaa gttgatcaca gtcaaattga cangattatc 300
 atgttnaact tgtagacaca gccggggcaa gatgaatatt ctatcctttc cctcaggaca 360
 tactccatag atattaatgg gttatantnc tnntgtantc ctgnnacacc attcaaaagg 420
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 cnntttgttg gntggggntn agnag 505

<210> 2604
 <211> 171
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (5)
 <223> n equals a,t,g, or c

<220>
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 <222> (18)
 <223> n equals a,t,g, or c

<220>
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 <222> (23)
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1977

<220>
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<222> (64)
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<220>
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<222> (70)
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<220>
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<222> (101)
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<220>
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<222> (109)
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<220>
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<222> (146)
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<220>
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<222> (154)
<223> n equals a,t,g, or c

<220>
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<222> (165)
<223> n equals a,t,g, or c

<400> 2604
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cacngaattg gtattactgt gcgagacaca ccaaccagca ncacccganc tacaggatga 120
aacggtggat cgacccttgg ggccangga cccnggtcac cgacnactca g 171

<210> 2605
<211> 467
<212> DNA
<213> Homo sapiens

<220>
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<220>

1978

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<222> (330)
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<220>
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<222> (349)
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<222> (423)
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<220>
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<222> (430)
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<220>
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<222> (432)
<223> n equals a,t,g, or c

<220>
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<222> (451)
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<220>
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<222> (467)
<223> n equals a,t,g, or c

<400> 2605
ggcgcggtg gaggtgtgag gatccgaacc caggggtgga ggcggtcct gcgatcgaag 60
gggacttgag actcaccggc cgcacgccat gagggccctg tgggtgctgg gcctctgctg 120
cgtcctgctg accttcgggt cggtcagagc tgacgatgaa gttgatgtgg atggtacagt 180
agaagaggat ctgggtaaaa gtagagaagg atcaaggact tcctgctcac agcccgacga 240
aaggatgccaa aatctgtcaa gatcaagaaa aataaggaca acgtgaagtt taaagttcga 300
tgcagcagat acctttacac cctgggtcatn actgacaaaag agaaggcana gaaactgaag 360
cagtcctgc ccccccgggt tgcacagtga aggaactgaa atgaaccaga caaactgat 420
ttngaactgn cnttatatta aaatactaaa natcctaata tattcan 467

<210> 2606
<211> 313
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

1979

<222> (60)
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<220>
<221> misc feature
<222> (87)
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<220>
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<222> (115)
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<220>
<221> misc feature
<222> (139)
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<220>
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<222> (144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (251)
<223> n equals a,t,g, or c

<220>
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<222> (275)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (300)
<223> n equals a,t,g, or c

<400> 2606
ggcaggatca aggtgaaaag gagaacccca tgcgggaact tgcacccgc aaactctgtn 60
tcaacatctg tggtggggag agtgganaca gactgacgag agcagccaag gtgtnggagc 120

1980

agctcacagg gcagaccnt gtgntttcca aagctagata cactgtcaga tcctttggca 180
tccggagaaa tgaaaagatt gctgtccact gcacagttct aggggccaag gcagaagaaa 240
tcttggagaa nggtctaaag gtgcgggagt atganttaan aanaaacaac ttctcagatn 300
ctggaaactt tgg 313

<210> 2607

<211> 324

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (85)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (172)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (213)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (222)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (233)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (234)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (269)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (299)

<223> n equals a,t,g, or c

<220>

1981

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<400> 2607

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gcgccatctt ccagtaattc gccaaaatga cgaacacaaa gggaaagagg agaggcacc 60
gatatatgtt ctctaggcct tttanaaaac atggagttgt tcctttggcc acatatatgc 120
gaatctataa gaaaggtgat attgtacaca tcaagggaat ggggtactgtt cnaaaaggaa 180
tgccccacaa gtgttaccat ggcataactg gangagtcta cnatgttacc cannatgctg 240
ttggcattgt tgtaaacaaa caagttaang gcaagattct tgccaagaga attaattgnc 300
gtattgagca cattaancac tcta                                     324
```

<210> 2608

<211> 625

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (552)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (563)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (567)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (604)

<223> n equals a,t,g, or c

1982

<400> 2608

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ncgccgaaag cgaagaagga agctcctgcc cctcctaaag ctgaagccaa agcgaaggct 60
ttaaaggcca agaaggcagt gttgaaaggt gtccacagcc acaaaaagaa gaagatccgc 120
acgtcaccca ccttcggcg gccgaagaca ctgcgactcc ggagacagcc caaatatcct 180
cggaagagcg ctcccaggag aaacaagctt gaccactatg ctatcatcaa gtttcgctg 240
accactgagt ctgccatgaa gaagatagaa gacaacaaca cacttggtgt cattgtggat 300
gttaaagcca acaagcacca gattaaacag gctgtgaaga agctgtatga cattgatgtg 360
gccaagggtca acaccctgat tcggcctgat ggagagaaga aggcataatgt tcgactggct 420
cctgattacg atgctttgga tgttgccaac aaaattggga tcatctaaac tgagtccagc 480
tgcctaattc tgaatatata tatatatata tcttttcacc atanaaaaaa aaaaaaaaaa 540
agggccggcc gntctaggag atncaanctt acgtacncgt tgcattgccga cgtcttagct 600
cttntatagt ggtcacccta aaatt 625
```

<210> 2609

<211> 151

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (107)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (110)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (126)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<400> 2609

```
ggccccgggtg gttgctgccg aaatgggcaa gttcatgaaa cctgggaang tgggtgcttgt 60
```

1983

cctggctggg acgctactcc ggacgcaaan ctgtcatcgt gaagaanatn gatgatggca 120
cctcanatcg cccctacagc catgcncctgg t 151

<210> 2610

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (408)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (413)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (420)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (427)

<223> n equals a,t,g, or c

<400> 2610

aatgattacg ccnttttctaa tacgactcnc tatagggaaa gctggtacgc ctgcaggtac 60
cgggtccggaa ttcccggtc gacccacgcg tccggtcgcc gctgcggagg gagccgccgc 120
catgtctgcg catctgcaat ggatgggtcgt gcggaactgc tccagtttcc tgatcaagag 180
gaataagcag acctacagca ctgagcccaa taacttgaag gcccgcaatt ccttccgcta 240
caacggactg attcaccgca agactgtggg ctggagccgg cagccgacgc aaagttctgg 300
tgggtcatta acggaatccg gcacggaacc tgccactcct atgtgcgaca catcaacaga 360
tgtccgcccc tcacactcaa cctatcccaa acatacccca ctgcctgnac acnaggcann 420

WO 01/22920

1984

431

ctctccncaa c

<210> 2611

<211> 142

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (102)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (119)

<223> n equals a,t,g, or c

1985

<220>

<221> misc feature

<222> (138)

<223> n equals a,t,g, or c

<400> 2611

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ggcaccgagcg caaagaaggg tngcgagann aanaaaggcn gttctnccat caacgaatga 60
taacccgaga atacnccatc aacattcaca atcgcatcca tngagtgggc ttcaagaanc 120
gtgcacctcg ggcaactnaa ga 142
```

<210> 2612

<211> 518

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<400> 2612

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ananagacac naaccctcac taaaggggaac aaaagctgga gctccaccgc ggtggcgggc 60
gctctagaac tagtgatcc cccgggctgc aggaattcgg cagaggttg tctgcaggca 120
ctcagaatgg tccagcggtt gacataccga cgtaggcttt cctacaatac agcctctaac 180
aaaactaggc tgtcccgaac ccctggtaat agaattgttt acctttatac caagaagggt 240
gggaaagcac caaaatctgc atgtggtgtg tgcccaggca gacttcgagg ggttcgtgct 300
gtaagacctt aagttcttat gagattgtcc aaaacaaaga aacatgtcag cagggcctat 360
ggtggttcca tgtgtgctaa atgtgttcgt gacaggatca agcgtgcttt ccttatcgag 420
gagcagaaaa tcgttggtgaa agtgttgaag gcacaagcac agagtcagaa agctaaataa 480
aaaaatgaaa cttttttgag taataaaaat gaaaagac 518
```

<210> 2613

<211> 269

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

1986

<220>
<221> misc feature
<222> (98)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (213)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (244)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (269)
<223> n equals a,t,g, or c

<400> 2613
gctgcactgc caccctgggc nacttcgcca aggccacctt tgatgccatt tctaagacct 60
acagctacct gacccccgac ctctggaagg agactgtntt caccaagtct ccctatcagg 120
agttcactga ccacctcgtc nagaccacaca ccagagtctc cgtgcagcgg actcaggctc 180
cagctgtggc tacaacatag ggtttttata cangaaaaat aaantgaatt aagcgtgtta 240
aaanaaaaaa aaaaaaacnc gaaaccaan 269

<210> 2614
<211> 451
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)

1987

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (224)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (448)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (451)

<223> n equals a,t,g, or c

<400> 2614

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gggtcnntgc ctccaagatg acaaagaaaa gaaggaacaa tggtcgtgcc aaaaagggcc 60
gcggccacgt gcagcctatt cgctgcacta actgtgcccg atgcgtgccc aaggacaagg 120
ccattaagaa attcgtcatt cgaaacatag tggaggccgc agcagtcagg gacatttctg 180
aagcgagcgt cttcgatgcc tatgtgcttc ccaagctgta tgtnaagcta cattactgtg 240
tgagttgtgc aattcacagc aaagtagtca ggaatcgatc tcgtgaagcc cgcaaggacc 300
gaacaccccc accccgattt agacctgcgg gtgctgcccc acgtcccca ccaagccca 360
tgtaangagc tgagttctta aagactgaag acangctatt ctctggagaa aaataaaatg 420
gaaattgtac ttaanaaaaa aaaaaaangg n 451

```

<210> 2615

<211> 293

<212> DNA

<213> Homo sapiens

1988

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

1989

<400> 2615

```
ggtcaccatc agctgtntctg gaaccacccg cganaatacg gccatggtn c tcn tcttgt 60
cgtgtctgtt caaacccggca cggctctgatc cggaaatat gcctcaatat gtgccgccag 120
tgtttccgtc agtacgcgaa ggatatcggg ttcattaagt tggactanat gctcttcctt 180
cataggatta tccggggcat ctactcaatg aaaaaccatg ataattcttt gtatataaaa 240
taaacatttg aaataanctt cnaattgtca aaaaaaaaaa atatgncctc tnn 293
```

<210> 2616

<211> 338

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (188)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (209)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (300)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (313)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (315)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<400> 2616

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ggcctcgga ggcgttcagc tgcttcaaga tgaagctgaa catctccttc ccagccactg 60
gctgccagaa actcattgaa gtggacgatg aacgcaaact tcgtactttc tatgagaagc 120
gtatggccac agaagttgct gctgacgctc tgggtgaaga atggaagggt tatgtggtcc 180
```

1990

```
gaatcagngg tgggaacgac aaacaaggnt tccccatgaa gcaggggtgtc ttgacccatg 240
gccgtgtccg ctgctactga gtaaggggca tttcctgtta caagaccaat ggagaactgn 300
anaaagaatt gananaatca gttcgtgggt gcattgtn 338
```

<210> 2617

<211> 422

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (138)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (303)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (325)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (336)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1991

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (399)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<400> 2617

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aattcggcag aggtcataga acccagaagg aaattgagca ggaagctgca gttgaattat 60
cacagttgag ggacccacag catgatctag atcgagtaaa gaaacctgaa tgggttatcc 120
tgataggtgt ttgcactnca tcttgggctg tgtaccattt ggcaaataca gggaggattt 180
tggtgggttat tactgccctt gccatgggtc acacttatga tgcattctggg caggatccag 240
attgggtcct gtcctcttc aaccttgaag tncccccacgg tattgagttt caccagtgc 300
ggntattggt ggatttgttt ggttnaagag actttnggac ttcaagncca taagggnttt 360
tttttcagtc ctttanggtg caaccccag ggggctttnn ttttggggga gggaggcctt 420
nt 422

```

<210> 2618

<211> 493

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (384)

1992

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (409)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (443)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (444)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (457)

<223> n equals a,t,g, or c

1993

<220>
<221> misc feature
<222> (461)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (474)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (486)
<223> n equals a,t,g, or c

<400> 2618
aattcggcag agnatcagaa gtgaatnatg ctggggataa cgatgagagt caccgcaatt 60
tcatccagga cgaatgctgc gtttgattca tgagtgtcct catcaggaag ggaagagcat 120
ccatgaagct ccgggctcag ctctgcgagc cttagcgtca aggccatcaa ggaagcgatt 180
gattatctga ccgttgaggg ccacatctat cccactgtgg atcgggagca ttttaagtct 240
gctgattgag gcagggaaaa catcctttca tttttcgaag acccttgcat ccagctgtgg 300
agtaattttg nacctgtttg acttttttagg aagtaggatt aaaaaaaaaa ttttcaagtg 360
ggcattcttt tgtcaactcg ttgntttttt aaanggtttt gaacttttng gntttcngna 420
tttgaggtcc agggganncg gtnntgggta aatttgncaa nccttgggggt tttnctggca 480
gttatnggaa aat 493

<210> 2619
<211> 439
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (426)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c

1994

<220>

<221> misc feature

<222> (429)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<400> 2619

```
ggatataagc ttgaccacga gttgagaccc tgagcacagg cctccaggag ccgctgggag 60
ctgccgccag gagctgtcac catgacgggg gaacttgagg ttaagaacat ggacatgaag 120
ccgggggtcaa cctgaagat cacaggcagn atcgccgatg gcactgatgg ctttgtaatt 180
aatctgggcc aggggacaga caagctgaac ctgcatttca accctcgctt cagcgaatcc 240
accattgtct gcaactcatt ggacggcagc aactgggggc aagaacaacg ggaagatcac 300
ctgtgcttca gcccaaggtc agaggtcaag ttcacagtga ccttttgaga agtgacaaat 360
tcaaagggtga aacctgccaa aatgggcacg aactggnttt ttcccaacaa ggcttggggg 420
cacaanncna ccttaanct 439
```

<210> 2620

<211> 330

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (284)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<400> 2620

```
tgaatctagc accatgacgg aactagagac agttcatggg catgatcata gacgtctttt 60
cccgatattc gggcagcgag ggcagcacgc agaccctgac caaggggggag ctcaagggtgc 120
tgatggagaa ggagctacca ggcttcctgc agagtggaaa agacaaggat gccgtggata 180
aattgctcaa ggacctggac gccaatggag atgccaggt ggacttcagt gagttcatcg 240
tgttcgtggc tgcaatcacg tctgcctgtc acaagtactt tganaaggca ggactcaaatt 300
gatgccctgg agatgtcaca gattcctggn 330
```

<210> 2621

<211> 508

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

1995

<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (51)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (268)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (273)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (282)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (296)
<223> n equals a,t,g, or c

<220>
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<220>
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<220>
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1996

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<220>

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<222> (347)

<223> n equals a,t,g, or c

<220>

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<222> (357)

<223> n equals a,t,g, or c

<220>

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<222> (384)

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<222> (405)

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<222> (414)

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<222> (428)

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1997

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<220>
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<220>
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 <222> (441)
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<220>
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 <222> (492)
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<400> 2621
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 cctgctttcg atgttaagnt tgtagatgta aatggcaatg ttctacctcc tggacaagaa 120
 ggtgatattg gcattcaagt tctacccaac cgaccatttg gcctttttac tcattacgtg 180
 gataatcctt caaaaacagc ttcaactcta cgaggcaatt ctatatcact ggggacagag 240
 gatatatgga taaagatggg tatctctnct tnttttgcaa gngcagatgt tggcanatat 300
 nccctgggtn tgcatttggc ccctttgggt ggnaaatccc ccattnnac cccttanttt 360
 agagtnccct ttttcaaang ccnaccct tcaagggggg nggtnaaagt tttnggnttt 420
 aaaaccntt tcnangncca nttcagggcc ccttttaagg ggttccgggg cttttaaaaa 480
 ctccgggcct tnaatttccc cagggggg 508

<210> 2622
 <211> 361
 <212> DNA
 <213> Homo sapiens

<220>
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<220>
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 <222> (33)
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1998

<220>
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<222> (115)
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<220>
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<222> (200)
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<220>
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<220>
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<222> (255)
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<220>
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<222> (257)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
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<220>
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<222> (294)
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<220>
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<220>
<221> misc feature
<222> (311)
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1999

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<400> 2622

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gaaaaaagaa ttacaacata aaatagatga aatggaagaa aaagaacagg agctncaggc 120
aaaaatagaa gctttgcaag ctgataatga tttcaccaat gaaaggctaa cagctttaca 180
agagaagctg accgtcgaan ggcatntaac caaagcggta gaagaaacaa agctttcaaa 240
agaaaatcan acaanancaa aagaatctga tttttcagat actctgagnc caancaagga 300
aaataanaaa nnaagggcgg tcgctctata ggatccaagg cttacgtact cgtgcatgcg 360
a                                                                 361
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<210> 2623

<211> 407

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

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<220>

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<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

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<220>

<221> misc feature

<222> (65)

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<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (101)

<223> n equals a,t,g, or c

<220>

<221> misc feature

2000

<222> (104)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (137)
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<220>
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 <222> (236)
 <223> n equals a,t,g, or c

<220>
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 <222> (290)
 <223> n equals a,t,g, or c

<220>
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 <222> (334)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (339)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (359)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (366)
 <223> n equals a,t,g, or c

<220>
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 <222> (383)
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 gcgtntttgga aatgaccccn cagcagggag acgtctacat ntgncaagtg gagcacacca 120
 gcctggacag tcctgtnacc gtggagtgga aggcacagtc tgattctgcc cggagtaaga 180
 cattgacggg agctgggggc ttcgtgctgg ggctcatcat ctgtggagtg ggcatnttca 240
 tgcacaggag gaacaagaaa gttcaacgag gatctgcata aacagggttn ctgacctacc 300
 gaaaagacta atgtgcctta gaacaagcat ttgntgggnt ttggtaacac ctgggttcang 360
 acagancctt agcttttccc aanaggatac tgggtgcaaa aaagttt 407

2001

<210> 2624
<211> 303
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (51)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (106)
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<220>
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
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<220>
<221> misc feature
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<221> misc feature
<222> (242)
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2002

<220>

<221> misc feature

<222> (258)

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<220>

<221> misc feature

<222> (264)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (303)

<223> n equals a,t,g, or c

<400> 2624

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gtttcaagcc cctgcaggaa gcagaatgca ccttttgagg cacctncagc tgcccccggc 120
cgggnaagtg cgaaggctcg gagcaccctt gcccggtgt gaattgctgc caggactgt 180
tgcattcna gcttttctgt gccctttgct cccggcaagc ggttctgctt gaaagtttca 240
tnatcttggg aggcctgnat ggtnccttaa cggaattaaa gggtccccc attgcttcca 300
aan 303
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<210> 2625

<211> 165

<212> DNA

<213> Homo sapiens

<400> 2625

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ggcacagcca ccagggcct gaggctgtc cacacccag gtgacggcgg gctccacaag 60
gcagtgagcg tgggcccccg ggtgcacatc attgaggagc tgcagatctt ctcatcgga 120
cagcccggtg cagaatctgc tcctgggaca cccacagggg ggctg 165
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<210> 2626

<211> 406

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (105)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

2003

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (382)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<400> 2626

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angtgcattc ggctcagtag taccgtccc ccgtgcccc gtacncccc agggtcctga 120
cgcaagcttc caaccccgtc gtctgcacgc aagccaaatc cccatccggg acagtgtgca 180
cctcaaagac taagaaagca ctgtgcatca ccttgacctg gggacttcct cctgggaact 240
gcgctggccg ctggcctact ctggaaatc atgggcagca aatgctcaa ctctgggata 300
gaatgcgaat cctcaagttc tgcatacaac ctctactggg tggtatagcg tntcaactgc 360
ccnnggggga agaaaaaat cngtgttcct nttttcaaac ttctcc 406
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<210> 2627

<211> 334

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (69)

<223> n equals a,t,g, or c

2004

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (98)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<220>
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<222> (165)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (220)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (223)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<220>

2005

<221> misc feature
<222> (233)
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<220>
<221> misc feature
<222> (247)
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<220>
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<222> (314)
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<220>
<221> misc feature
<222> (331)
<223> n equals a,t,g, or c

<220>
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<222> (333)
<223> n equals a,t,g, or c

<400> 2627
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tctctgagnn ccgcacctac agcttcccct gctacctncc gcagcccgt catcaaccac 120
gccgcccagg cnggatacgg atggcatcca cctcctgagc agccngcncc tgnatgaatc 180
caagagtcgc atgcagcaga agctgccctg agtcactncn acntccggnc tcngggaaga 240
gccgtgngca ccaaccttga aaacactggc gacaacgtct ccctgaaggg gaaaccactc 300
cagaagggac ccangctacc caggggntgg ncna 334

<210> 2628
<211> 568
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c

2006

<220>
<221> misc feature
<222> (407)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (429)
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<220>
<221> misc feature
<222> (444)
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<220>
<221> misc feature
<222> (455)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (457)
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<220>
<221> misc feature
<222> (508)
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<220>
<221> misc feature
<222> (524)
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<220>
<221> misc feature
<222> (526)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (555)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (557)
<223> n equals a,t,g, or c

2007

<400> 2628

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gcacgggaat gtgcccctgc actatgcctg tttttggggc caagatcaag tggcagagga 60
cctggtggca aatggggccc ttgtcagcat ctgtaacaag tatggagaga tgcctgtgga 120
caaagccaag gcaccctga gagagcttct ccgagagcgg gcagagaaga tgggccagaa 180
tctcaaccgt attccataca aggacacatt ctggaagggg accaccgca ctcggccccg 240
tgagtcacca ctgtgggaag aagggttgta aaaggaaata atcctggcct cttggggctg 300
ggttaggggtg aagctgggta cctgacctgc cacactctta ngaaatggaa ccctgaacaa 360
acactctggc attgacttca aacaagctta acttntctgac gaagctnaac gaagaatact 420
cttggaang tgaccctgc cttnttgccc tcctnanta ccccccataaa tacttgcttt 480
gtacctgttt taagttttct tcaattantg ggcaagggaag tgggnanaaca ttttaagcttc 540
taccctactg tctgnanttt ggaaggcc 568
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<210> 2629

<211> 335

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

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<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

2008

<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (82)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (119)
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<220>
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<222> (123)
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<220>
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<222> (187)
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<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<400> 2629
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gtncagaga atgtgctgag tntcgatgac cttactgcag acgcnttagc taacctganc 120
aanccacaaa tcaaaaaagt ccgactcctc attgatgaag ccatacctgaa gtgtgacgcg 180
gagggantaa agttggaagc agagcggttt gagaacctcc gagagattgg gaaccttctg 240
cacccttctg taccatcag taacgatgag gtaggtggct gtgccgcagc aggaggctgc 300
cttaggtcgc tgctgtctct gcaggggcgg ggang 335

<210> 2630
<211> 117
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

2009

<222> (16)
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<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (86)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c

<400> 2630
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agttacagaa gcatcttcna acaggnntgc tgctattaaa atcnatacca aaagtga 117

<210> 2631
<211> 488
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c

2010

<220>
<221> misc feature
<222> (474)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (482)
<223> n equals a,t,g, or c

<400> 2631
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agacaatcgc accacagaat gctccaagag atgagtctag gggccgttcc tcgttttatc 120
ctgatggtgg agatcaggaa actgcaaaga ctgggaagtt cttaaaaagg ttcacagatg 180
aagagtctag agtattcctg cttgataggg gtaataccag ggataaagag gcttcaaaag 240
agaaaggatc agagaaaggg agggcagagg gagaatggga agatcaggaa gctctagatt 300
acttcagtga taaagagtct ggaaaacaaa agtttaatga ttcagaaggg gatgacacag 360
aggagacaga ggattataga cagttcagga agtcaagtcc tcgcagatca gggtaaaagt 420
tttgctactg catctcaccc ggaatncctg aaggaggaan ggactcaagt accnngttcc 480
anaggttt 488

<210> 2632
<211> 103
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c

2011

<220>

<221> misc feature

<222> (100)

<223> n equals a,t,g, or c

<400> 2632

gaccggtatc aggtgtgccca aggcgaantn aaagaattgc aggcaaaaga gtttgcanaa 60
tggaatcagg anaagcaggc tgcttttctc ctaaaatcan cca 103

<210> 2633

<211> 686

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

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<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

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<222> (11)

<223> n equals a,t,g, or c

<220>

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<222> (38)

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<220>

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<223> n equals a,t,g, or c

<220>

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<222> (321)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (613)

<223> n equals a,t,g, or c

<220>

2012

<221> misc feature
<222> (615)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (645)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (651)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (663)
<223> n equals a,t,g, or c

<400> 2633
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atggcggagt acgacttgac tactcntatc ggcactttt tggatcggca tctagtcttt 120
ccgcttcttg aatttctctc tgtaaaggag atatataatg aaaaggaatt attacaaggt 180
aaattggacc ttcttagtga taccaacatg gtagactttg ctatggatgt atacaaaaac 240
ctttattctg atgatattcc tcatgctttg agagagaaaa gaaccacagt ggttgcacaa 300
ctgaaacaag cttcaggcag naaccagaac caattgtgaa gatgtttgaa gatccagaaa 360
ctacaaggca aatgcagtca accagggatg gtaggatgct ctttgactac ctggcggaca 420
agcatggttt taggcaggaa tatttagata cactctacag atatgcaaaa ttccagtacg 480
aatgtgggaa ttactcagga gcaagcagaa tatctttatt tttttagagt gctgggtcca 540
gcaacagata gaaatgcttt aagtcactct ggggaagctg gcctctgaaa tcttaatgca 600
gaattgggga tgnancatgg aagaccttac acgggttaaaa gagancatag ntaataattc 660
tgnnggtctc catttagctc ttagca 686

<210> 2634
<211> 354
<212> DNA
<213> Homo sapiens

<220>
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<220>
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2013

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<222> (343)

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<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<400> 2634

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tcgggggccca gatgggggctg ttcatcgggg ccagcatcct cacgggtgctg gagctctttg 120
actacgccta cgaggtcatt aagcacaagc tgtgccgacg aggaaaatgc cagaaggagg 180
ccaaaaggag cagtgcggac aagggcgtgg ccctcacctg gacgacgtca aaagacacaa 240
cccgttgcca gaaccttcgg ggccaccctg ccgggatgac atacgcttgg caacattcta 300
ccttanccat tcggggccgaa ggacttcnaa gacntttact tgnttgance cccg      354
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<210> 2635

<211> 620

<212> DNA

<213> Homo sapiens

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<220>

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<222> (55)

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<222> (62)

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<220>

2014

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<220>
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2015

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<222> (555)

2016

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<220>

<221> misc feature

<222> (613)

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<221> misc feature

<222> (620)

<223> n equals a,t,g, or c

<400> 2635

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anaatagaga tcangttgaa ttttgtatga atntcctatt tatnaacact tttattaata 120
ctacaatggt gctgctgtga ttgancacga gcgagttcag aagacctttc ctcacccaat 180
tgataaatgg gccatngctg atgcacaatc tgctatagaa aaacaaaaaac gaagaaatcc 240
tctttttactg cctgtggacn aaatccatcc ttcgttnnaan gaattattag ggtacaaaat 300
gagactacca tgtatcccta tatnttgtgg ntgtactaca ntatatctca gcctgatatt 360
ttaaaatngg ctggtcntct tgtttttaat atccggcatt ntgaaatata tcanacanga 420
ctttaaattg tctattttgt tgcggatcan gttaatgtta caaggtattt naattttact 480
tgaatagcac natctaattt ctgcctcaat ctttatgttt taattattaa atanattatc 540
tnttatgatt tgctncttac tggaaacaaa aaaaaaatcc tggctttact tcattaacca 600
tgaatatttc ccngtttttn                                     620
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<210> 2636

<211> 153

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

2017

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (101)

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<220>

<221> misc feature

<222> (140)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (142)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<400> 2636

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gacatcctct ggatcctctg ttggttnct ttgctgctgt ngctggacag gatgggccta 120
ttgatgctga tgaatttctn anatgtcnga cct 153

<210> 2637

<211> 377

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<220>

<221> misc feature

<222> (52)

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<220>

<221> misc feature

<222> (225)

<223> n equals a,t,g, or c

<220>

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2018

<222> (238)

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<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

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<220>

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<222> (285)

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<220>

<221> misc feature

<222> (293)

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<220>

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<222> (335)

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<220>

<221> misc feature

<222> (351)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (371)

<223> n equals a,t,g, or c

<400> 2637

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cgatgctgcc tctgctgcgc tgcgtgcccc gtgtgctggg ctctctcgtc gccggcctcc 120
gcgctgccgc gccgcctcg cctttccggc agctcctgca gccggcaccc cggctgtgca 180
cccggccctt cgggctgctc agcgtgcgcg caggttccga gcggnggccg ggcctccngc 240
ggngctgcgcg accctgcgcc nggtgctgtg gctgcggctc gctgnacacc ganggagaca 300
aagcttttgt tgattacctg agtgatgaaa ttaangagga aagaaaaatt nagaagcata 360
aaacccttcc naagatg 377

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<210> 2638

<211> 479

<212> DNA

<213> Homo sapiens

2019

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<220>

<221> misc feature

<222> (344)

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<220>

<221> misc feature

<222> (413)

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<222> (432)

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<221> misc feature

<222> (433)

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<220>

<221> misc feature

<222> (441)

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<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<400> 2638

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agctgattat tcagaaattt tagatttagt ggaaaggaaa aaagatatat ttaatcctaa 120
aaaagggaact tatcaagaaa aacttgggag aatattagtt ttggctgatt ctgctcactc 180
atttggtagt agctacaaag gaaagaaaat aggaagtgtg gcagatgtaa cttcattttc 240
atttcatgca ataaaaaatt taacaacagc agaaggtgga gctttaacat ggaatcttcc 300
taataattttt gataatgagc aaatttataa agagttgatg ttgntagctt tacatggcaa 360
aataaggatg cactagcaaa gctaaaagca ggtgcttgga aatatgatat tgncatgccca 420
ggatacaaat gnnatatgac ngatattatg gcggctattg ggттаатсса cttnaagat 479
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<210> 2639

<211> 410

<212> DNA

<213> Homo sapiens

2020

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<220>

<221> misc feature

<222> (300)

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<220>

<221> misc feature

<222> (370)

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<220>

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<222> (405)

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<222> (408)

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<400> 2639

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gatctggaga cactaataat ttctcttata tggaaaagac agccaaaaaa gtgtaccagc 120
gcataccgcg tccagcctga ggacgtcaac ctgcgggtca tctcggaata tcagaagctc 180
tttcttgaca ttcccatagg gtattctggg catgaaacag gcatagcgat atctgtggcc 240
gcagtggctc tgggggccaa ggtgttggaa cgtcacataa ctttgggncaa gacctggaan 300
gggagtgacc actcggactc gctggagcct ggagaactgg gcgaagctgg tgcggtcagt 360
gcgtcttgnn ggancgtgcc ctgggctccc caagcaaagc anctnacngc 410
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<210> 2640

<211> 164

<212> DNA

<213> Homo sapiens

<220>

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2021

<222> (148)

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<220>

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<222> (153)

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<220>

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<222> (154)

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<222> (159)

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<400> 2640

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acttttggcc aggggaccaa cctggagatc aaacgaactg tggctgcacc atctgtcttc 120
atcttcccgc catctgataa aacaattnaa atnntgaant tnct 164
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<210> 2641

<211> 450

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (271)

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<220>

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<222> (307)

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<220>

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<222> (328)

2022

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<220>

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<222> (380)

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<222> (407)

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<400> 2641

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aaaaaccaca ctaggcaaag aacttgcgctc aaaatcagga ctgaaataca ttaatgtggg 120
tgatttagct cgagaagtct gatcatcgga tatcatggag tctggcaaga cggcttctcc 180
caagagcatg ccgaaagatg cacagatnat ggcacaaatc ctgaaggata tggggattac 240
agaatatgag ccaagagtta taaatcagat nttggagttt gccttccgat atgtgaccac 300
aattctngat gatgcaaaaa tttattcnag ccatgctaaa aaaacttctg ttgatgcana 360
ttatgtgcga tggcatccan tgccgectga tcattcttta ctctccnccc caaaaatttt 420
tttanatttg caggcaaat caanccttgc 450
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<210> 2642

<211> 550

<212> DNA

<213> Homo sapiens

<220>

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<220>

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2023

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<220>
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<220>
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2024

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<220>
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<222> (324)
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<220>
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<220>
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<222> (364)
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<220>

2025

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<220>
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<220>
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gaagcgcagc agcaggcatc gtgggaaggt gaagagcttc cctaaggatg acccatccaa 120
gccggtccac ctcacagcct tcttgggata caaggctggc atgactcaca tcntgcggga 180
attcnacang gccgatcca aggtgaacaa aagagttgtt tgaagcnttt tacatttttn 240
aaaaaccng ngntttttgg cttttgncct tnaaaacccc naggcccgaa ctttcaaaat 300
ttttntttta ccccttnnaa tcanaaggnt ttttttnaaa tgggtntttt aaaaaagctt 360
cccntttcca aatgggggaga agangggnaa cccggaagaa tcccccaaa atttcttttc 420
cttttttccc ccaaaccctt cnttccaaaa aacctttnaa catttaaagc tttcnaaana 480
aggcccaaan aanattctta catttttggg aaaaaaatcc gttaaggag gaagttcctt 540
ttgccaaaac 550

<210> 2643
<211> 355
<212> DNA
<213> Homo sapiens

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2026

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<222> (21)
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<220>
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<222> (29)
<223> n equals a,t,g, or c

<220>
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<222> (31)
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<220>
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<222> (59)
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<220>
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<222> (329)
<223> n equals a,t,g, or c

<220>
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<222> (335)
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<220>
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<222> (339)
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<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<223> n equals a,t,g, or c

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ctgcagggtac cgggtccggaa ttcccgggtc gacccacgcg tccgtggaca gctgatgaag 120
gggtcttoga caattttgtt ctcaaaatca gagataccaa aaagcagtct gagccactgg 180
aaataaccct acttgcccc gaacgtacca gggacataac aggtctcaga gaggetactg 240
aatacgaaat tgaactctat ggaataagca aaggaaggcg atcccagaca gtctgttctc 300

2027

tcctgtttat ttacagtatc tggtgttgnt atagnactna ctgnttttnt atttt 355

<210> 2644

<211> 397

<212> DNA

<213> Homo sapiens

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<220>

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<222> (7)

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<220>

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<222> (17)

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<220>

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<222> (27)

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<220>

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<220>

<221> misc feature

<222> (159)

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<220>

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<222> (190)

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<220>

<221> misc feature

<222> (199)

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<220>

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<222> (216)

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WO 01/22920

2028

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<220>
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<220>
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<220>
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<222> (354)
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<220>
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<220>
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2029

<400> 2644

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cccgggtcga nccacgcgtc cgcggacgcg tgggccccagc ctgggccggc accctggggc 120
tcaccaaggc aacctggcct tcggtcttca tagcaatgna atagccagcc ctggaagccc 180
cagcctgggn cgtcacctng gagggactgg atctgnggtt cccggcagnc cctgcttgga 240
ccggcatgtg gcctatggag gctatnctac ccnggaggat cggagacca cactgtcnng 300
gaagagcant gcctatggct accaggtcc ttcnagcca tccttgctg tctnccctgc 360
ctactaccct ggactgagna gccctgacac ctacnag 397

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<210> 2645

<211> 250

<212> DNA

<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (204)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (214)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (232)

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<220>

<221> misc feature

<222> (243)

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<400> 2645

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ggtggaggcc acatgcgcct gcctgcttgc tcagggagaa gaggccgaga aagaacactg 60
ctccaagtgc ctggcagagc agatgatcct ggaggaattt ggaagggtgct tatcacagat 120
tctccacact gagttttaat ctaagggatt gaaaatggag tagagtataa agtgtgaatg 180
catgttgatt ttgtcttant ctanaaatct ctantttaga aaggatgttt angggaacat 240
gangctggct 250

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<210> 2646

<211> 361

<212> DNA

<213> Homo sapiens

2030

<220>

<221> misc feature

<222> (97)

<223> n equals a,t,g, or c

<400> 2646

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atcgtgactg ttggtggaga agagagagtt tcacggaaac ccacagcagc gatgcgatgc 60
atgtgccctc tctatgacct taacaggcag ctttggntcg aactggcccc tttaagcatg 120
ccgagaatta accatggagt tctctcagca gaaggatttt tgtttgtatt cggggggccaa 180
gatgaaaata agcagactct tagctcagga gaaaagtatg atccagatgc aaatacatgg 240
acagcattgc cacctatgaa cgaggcaaga cataacttcg gaattgtgga gatagatggg 300
atgctgtaca ttttgggagg agaggatggt gaaaaggagc tgatttccat ggagtgttac 360
g                                     361
```

<210> 2647

<211> 260

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

2031

<222> (42)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (241)

<223> n equals a,t,g, or c

<400> 2647

```
gcaagcnncg ccnccannca tcactaaaag ggancaaaag cnttgagctc caccgnggtg 60
cgggccgctc tagaactagt ggatcccccg ggctgcagga attcggcacg agggatatcg 120
acgtcgtgat ccagaagtcc agagctgagg actgcctgtt tgcagccaag ttctatagaa 180
attttagagt attcatcaga tagtgaaaaa gaagatgatt tggaaaatgt cctactcatt 240
nattcagaac cccctcacia                                     260
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<210> 2648

<211> 421

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (409)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (411)

<223> n equals a,t,g, or c

<400> 2648

2032

```
gccccacgcgt cccgtcccggt gcgctagccc acctccgacc cgcctcttgg ctctctctct 60
ctaggccggtc gctttcgggt tctctcatcg cttcgtcggt cgccaatggt tgaggagaag 120
gccagcagtc cttcagggaa gatgggagggc gaggagaagc cgattggtgc tggagaagag 180
aagcaaaagg aaggaggcaa aaagaagaac aaagaaggat ctggagatgg aggtcgagct 240
gagttgaatc cttggcctga atatatttac acacgtcttg agatgtataa tataactaaaa 300
gcagaacatg attccattct ggcagaaaaa aaaaaaaaaa gggcggncgc tctagaggat 360
ccaaagctta cgtacgcgtn catgcgangt cataagtttt tctattagng ncacctaaaa 420
t 421
```

<210> 2649

<211> 788

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (566)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (587)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (669)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (678)

<223> n equals a,t,g, or c

<220>

<221> misc feature

2033

<222> (681)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (706)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (740)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (750)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (783)

<223> n equals a,t,g, or c

<400> 2649

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attaanggaa atcncggtac gccttttaggt accgggtcng aattcccggg tcgacccacg 60
cgtccgggatt ccctcccgaa cagttaaccg gaagagtaca gacagcccgg tagagtgtat 120
gggccaggag aaaggggaat tcagagaaat attctacatc attggagctg tggatattgt 180
ggtcatcatc cttgtcatca tcctggctat atctctacac aagtgtagaa aggcaggagt 240
ggggcagagc tggaaggaga actcccact gaatgtttca taaaggaagc actgttggag 300
ctactgcaaa tgctatattg cactgtgacc gagaactttt aagaggatag aatacatgga 360
aacgcaaattg agtatattcg agcatgaaga ccctggagtt caaaaaactc ttgatattgac 420
ctgttattac cattagcatt ctggttttga catcagcatt agtcactttg aaatgtaaca 480
aatggtacta caaccaattc caaggtttaa tttttaacac catggcacct tttgcacata 540
acatgcttta agattatata ttccgnactc aagggagtaa ccaggtngtc caagcaaaaa 600
ccaatgggaa aatggcttaa aaaatctggg tgggactttt gaaaagcttt tttttttttt 660
ttttttgana cgggagcntg nttttgttgg ccaagctgga aggcantaag caccgatctt 720
gggttaattg gaccttcggn ttttgggttn aagcaaattg ctggcctaaa ccttccgagt 780
agntggga                                     788
```

<210> 2650

<211> 378

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

2034

<222> (150)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (313)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<400> 2650
ggtganaagc gaatatccct ctataaaact ggtggtggag tggcaacttc aggatgacaa 60
aaaccaaagt ctcttctgct gggaaatccc agtacagatc gtttctcatc tctaagtgcc 120
tcattgagtt cggtgcatct ggccaatgan tctgctgaga ctcttgacag cacctccagc 180
tctgctgctt caacaacagt gacttgctct ccaatgggat ccagtgattc gttgaanagg 240
agggtgctctg tagcagaaac tgagctncgg gtggctgntt ctcaatggnt gctcatgtct 300
cttttctgct tangtggttc attaaatgca ccacttggtg gcaatgttaa tnttttttta 360
acacnttact tggggnct 378

2035

<210> 2651
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (164)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (173)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (209)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (220)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (225)
 <223> n equals a,t,g, or c

<400> 2651
 gcctcaagca gcggcggtcc cttagtgaca gtgtctacac ccctccacca agtgtccccc 60
 acgggccttg agcccagcca cagcctgctg agtacagaag ccaagctggg ctcagcagct 120
 gggggccccc tccccctgtc agcaccctga cagcactgca cagnttggag canacatccc 180
 caggcctcaa ccagcagccc cagaacctna tcatggcctn acttntctggg gtcatgacca 240
 t 241

<210> 2652
 <211> 377
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (356)
 <223> n equals a,t,g, or c

<400> 2652
 gacctgtcaa aacatatcaa gaccaccag aataagaagg gagggccagg tgtagctctg 60
 agtgtgggca ctttgccctt ggacagtggg gcaggttcag aaggcagtgg cactgccact 120

2036

```
ccttcagccc ttattaccac caatatggta gccatggagg ccatctgtcc agagggcatt 180
gcccgtcttg ccaacagtg catcaacgtc atgcaggttg cagatctgca gtccattaat 240
atcagtggca atggcttctg agatcaggca cccggggcca gagacatatg ggccataccc 300
cttaaccccg ggatgcaagg tagcatgggt ccaagagaca tggaagagag agcccntgag 360
attaaaatgc atggtgt                                     377
```

<210> 2653

<211> 496

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (154)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (175)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (216)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (281)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (387)

<223> n equals a,t,g, or c

2037

<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (404)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (447)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (461)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (477)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (494)
<223> n equals a,t,g, or c

<220>

2038

<221> misc feature

<222> (495)

<223> n equals a,t,g, or c

<400> 2653

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aattcggcan agcaggggtca ctgtcaagct tgaggaggca ggtacaaaac atattatatt 60
aatcacagaa aatgagatcc tggcacacag ggtcagattg aggggtgggc acctgtagtt 120
ctgcacgatg ttccgagaaa gcttcagct gtnnccccgg acagcagcag atttngagga 180
tcagtaacag tgaaaaagtg ccgggctctg ccaggnaaag tactttgggc ccagcgaggt 240
tcctgggatg ttgatgtcta aaggcaattt caccatttt ntgcaggaca gagattaagg 300
gttcagagcg ggagtccaag ggttccaagg ggttccagtt agggggaant tttggtggcc 360
cctgccctgg gcccctgagg ttttctntca ttcttttnaa gagntcaagg tgnntagatn 420
taggggaaag aaagagngtt cagattntta ctgggtctat nttgggaagg aaggccntag 480
gggattccnt ttttna                                     496
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<210> 2654

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (373)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (413)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (451)

<223> n equals a,t,g, or c

<220>

2039

<221> misc feature
<222> (474)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (479)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (494)
<223> n equals a,t,g, or c

<400> 2654
aattcggcan agcctaaata caacagggac actctggaca atgacatcat gctgatcaaa 60
ctctcctcac ctgccgtcat caatgcccg cgtgtccacca tctctctgcc caccgcccct 120
ccagctgctg gncactgagt gctgcatact ccggctgggg caacactctg agctttggtg 180
ctgactaccc agacgagctg aagtgcctgg atgctccggg gctgaccag gctgagtgtg 240
aagcctccta ccctgggaaa gattaccaac agcatgttct gtgtggggct tccttgaggg 300
gaggcaagga ttccttgcca gcgtgacttt ggtggccctg tggctctgcaa ggacagtcc 360
aaggggtgtg ctncctggggc caggggtgtg tggaagaac aggctggagt tncaccagg 420
tttacaattt gtggattggn ttagggcaac ntggttgcaa cattaagccc ggtnccttng 480
atttttacca taanggct 498

<210> 2655
<211> 336
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (194)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (212)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>

2040

<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c

<400> 2655
gaacgcttct gtgagacttg ataatagctc ctctgggtgca agtgtggtag ctattgacaa 60
caaaatcgag caagctatgg atctagtga aagccatttg atgtatgcgg tcagagaaga 120
agtggagggtc ctcaaagagc aaatcaaaga actaatagag aaaaattccc agctggagca 180
ggagaacaat ctgntgaaga cactggccag tnttgagcag cttgcccagt ttcangccca 240
gctgcagact ggctcccccc ctgccaccac ccagtcacag ggcaccacac agnccccgc 300
cagccagtat nntagggctc angaccaacc gcatan 336

<210> 2656
<211> 622
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (471)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (506)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (514)
<223> n equals a,t,g, or c

2041

<220>
 <221> misc feature
 <222> (517)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (594)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (598)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (603)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (611)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (612)
 <223> n equals a,t,g, or c

<400> 2656
 ggagaataca gactatgtga acgcatcctt tattgatggc taccggcaga aggactccta 60
 tatcgccagc cagggccctc ttctccacac aattgaggac ttctggcgaa tgatctggga 120
 gtggaaatcc tgctctatcg tgatgctaac agaactggag gagagaggcc aggagaagtg 180
 tgcccagtac tggccatctg atggactggt gtcctatgga gatattacag tgggaactgaa 240
 gaaggaggag gaatgtgaga gctacaccgt ccgagacctc ctggtcacca acaccaggga 300
 gaataagagc cggcagatcc ggcagttcca cttccatggc tggcctgaag tgggcatccc 360
 cagtgcagga aagggcatga tcagcatcat cgccgccgtg cagaagcagc agcagcagtc 420
 agggaaccac cccatcaccc gtgcactgca gcgcccgggg caggaaggac ngggaccttc 480
 tgtgccctga gcaccgtctg gancntgtg aaancanagg ggattttgga tgtcttccag 540
 actgtcagag cctgcggcctt tcagagggca cacatgggtc agacactgga acantttnag 600
 ttntggttcc nnggtggtgc ag 622

<210> 2657
 <211> 497
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature

2042

<222> (463)

<223> n equals a,t,g, or c

<400> 2657

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gctcgccggg gctgcgccg cccgaggctg ccctgaggat ctgtgtttgg tgaaaaggag 60
ccaaattcac ctgcagggca ggcggctcta gcagcttcag aagcctgggtg ccctggcgac 120
actggacctg ccttggttct tttgatccca accccacccc cgatttctgc tctgctgact 180
ggggaagtca tcgtgccacc cagaacctga gtgcgggcct ctgagagctc cttcatcggg 240
actttgaaca tgtcggggat cgccctcagc agactcgccc aggagaggaa agcatggagg 300
aaagaccacc catttggttt cgtggctgtc ccaacaaaaa atcccgatgg cacgatgaac 360
ctcatgaact gggagtgcgc cattccggga aagaaaggga ctccgtggga aggaggcttg 420
tttaaaactac ggatgctttt caaagatgat tatccatctt cgncaccaa atgtaaattc 480
gaaccaccat tatttca 497

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<210> 2658

<211> 584

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<400> 2658

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tgacaccaac cctcactaaa gggaacaaaa gctggagctc caccgcggtg cagnccgctc 60
tagaactagt ggatcccccg ggctgcagga attcggcacg agggcagatc acctttcctt 120
tgtctccagc tcttaacatt gaagtggaac aaaatgggaa accgtccctg gttgatttga 180
atgaagaaat gcagcacatg gatgtagagg aatcacagtg tcttagatta tgtccatttt 240
tggaggatca taaagaagac attctatgtg ggccagtatg gcttgctagt ggccttgatc 300
tatcagggca tgctggaatg ttgacgttaa caagcccaa acttgtaaaa ggtatggcag 360
gaggaaaata tcgttcgttt ttaatccatg tcaaggcagt gaatgaaaga ggaacagaag 420
agatttgtaa tgggtggtatg cgtcctgtag taaggcttcc atccctaaaa caccagagta 480
acaaggggta ttcacttgct tcacttttgg cttaaagttgc agcaggcaag gaaaaatcat 540
ctaattgttaa gaatgaaaat acaagtggca cccgtaaatc tgaa 584

```

<210> 2659

<211> 358

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (354)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (355)

<223> n equals a,t,g, or c

2043

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (357)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (358)
<223> n equals a,t,g, or c

<400> 2659
gctgatattt gccggcaaac agctggagga tggccgcact ctctcagact acaacatcca 60
gaaagagtc accctgcacc tgggtgttgcg cctgcgaggt ggcattattg agccttctct 120
ccgccagctt gccagaaat acaactgcga caagatgac tgccgcaagt gctatgctcg 180
ccttcaccct cgtgctgtca actgccgcaa gaagaagtgt ggtcacacca acaacctgcg 240
tccaagaag aaggtcaa ataaagtgtc cctttcattg actggaaaaa aaannnnn 300
cccgtggccc tggagcctca ataaagtgtc cctttcattg actggaaaaa aaannnnn 358

<210> 2660
<211> 644
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (588)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (617)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (619)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (620)

2044

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (638)

<223> n equals a,t,g, or c

<400> 2660

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gcatttatng acaagagaaa gcacaaagca tggagaccct ccctccaggg aaagtacggt 60
ggccagactt taaccaggaa gcttatgttg gagggacgat ggtccgctcc gggcaggacc 120
cttacgcccg caacaagtgc aaccagggtg agagtataa gcttcgaatg gacagagcca 180
tccctgacac ccggcatgac cagtgtcagc ggaagcagtg gcgggtggat ctgccggcca 240
ccagcgtggt gatcacgttt cacaatgaag ccaggtcggc cctactcagg accgtggtca 300
gcgtgcttaa gaaaagcccg ccccatctca taaaagaaat catcttggtg gatgactaca 360
gcaatgatcc tgaggacggg gctctcttgg ggaaaattga gaaagtgcga gttcttagaa 420
atgatcgacg agaaggctc atgcgctcac gggttcgggg ggccgatgct gcccaagcca 480
aggtcctgac cttcctggac agtcactgag agtgaatga gcaactggctg gagccctcc 540
tggaaagggt ggccgaggac aggactcggg ttgggtcacc catcattnga tgtcattaat 600
attgaccaa ctttcantnn tgtgggggca tctggctnga cttt 644
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<210> 2661

<211> 439

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (207)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (253)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (268)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<400> 2661

2045

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ttgttttatt gccatcctgt ttggaagcag cacaatatca ctttcagacg aagcctctag 60
gagatgttct gtacttttnt ccactctcag ttctcagtct tgtaagcagt tacgagtgtg 120
cctttctcct ctaagtaaaag aagccataga tgactccccg agacttttag caaaactctt 180
ggccttaaaa ctatgctacc atatatnctt agaagtcaaa ggatgcaaca cagagaatac 240
atTTTTtctat gangattaat acaagtgnat attagtggat ataaccatta attgtttgga 300
ctcagcctta tcttacaaat gcaagggtcat ttatctagat cagtacttaa aaacataaaa 360
ttttactcta ataaaatgca atataaaagt nggtttaatt ttgatatgtg ctttatagga 420
gtgaagctga aaatatTTa                                     439

```

<210> 2662

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (150)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (207)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (258)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<400> 2662

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tgacaaaaag cctatacgat atgcaagant tgtatttntc caatatcaac catcacattt 60
agaaaacctt cagaaagcat atgtacatag tatcttatgt gtaagtgaat gagaatttta 120
tgaataaact ttttaagggg attaagacan tacaatcgtc tgtatctgaa ataaagcaga 180
gacaaaggca aagattatag ctatggntga ggtgaactga gtatcaatac attctaagga 240
taacatagag ttaatganat tnattaaatg atcaatacca gtataataaa tatcctggca 300

```

2047

agtgccacct ctgactaata ttgggctgtt gccaggaaaa cccaactttg ggatttcaag 360
ctattactttt cegtgaacc cctgggtgctt gactattcaa ggggacagct ct 412

<210> 2665

<211> 366

<212> DNA

<213> Homo sapiens

<400> 2665

agcagggctcg gcagtgaaga gcagagaaag gcagttgggg atgttgccac tgtccccga 60
gaccacctg ccatggagac gagggagctg tcccttcgcg gaagggggct ggccagcaag 120
aaggacagag agtggactgg ccgaggaccg ctgagctcag gacccaagga ggactcttct 180
aggagacgag agagcgaacg ccagggaccc tgtgcaggcc tgctcctccg ttgcaagca 240
ggctccctcc ccgaggccgt tcagaagcat tctcagcgg gtcctacacg tttcctctcc 300
catgtcaagt ttagaagcag tgtcaagacc cacagcagtc ctgcaggagt ttaagggat 360
gcacgg 366

<210> 2666

<211> 453

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<400> 2666

gaattttaat agtaaaatct tataagtgga tgaggagagt aattaatata tagaacatta 60
ccaattataa atacatattt aagtataatt tagtgttttc tggaaagaaa tcaaatgtgt 120
ttctgtgggc attcacattt tcttttttgt gaattttcca agctttctac aatagccata 180
cattctgcaa tatttatagt ctataactta ttatctctag ttgacaaaca tggttctttg 240
tttcttaaata tataaatgtc tttaacctaa aaaaattaaa tagtcattca gcttacaggt 300
ctgcttaaaa aacagaacat ttttttagctt nttttgaacc aattttttta atgttcctgt 360
gcaattagta ctttttactt taaacatatg cacttaaagc atccattcac attttaggca 420
ctcatttcag tattttcttt ctgcttacat tag 453

<210> 2667

<211> 479

<212> DNA

<213> Homo sapiens

<400> 2667

gagagaatag tgggtaggag ttaaccagga aagcaaggat gaaagcgtgt tgcgtttaga 60
taaaggatag gcttcaaggt caggaacgt tgctgggtgg tgagatggaa ccctgatgtg 120
gaggctcagc aggaagaagc aggaaggaca ctgggcccc ggtgggtttta gttccagaaa 180
caaagtgtggg cccagggct ctgcaatggt aaggctggaa ctactcaaca taagagctcc 240
acctttaact gtgcccccta agagtacctg atgatcccc tatctccttg tcaatgttgc 300
tgtttctctc cagaatctat ttcaaccctt ctctgatttc aaaccaccag tccctttacc 360
tctcagagaa aacagcaacc acaaaagcct ctccacttcc tactatctta atattgacaa 420
cttccagatc agggagctga gatattctca gctcaggttt ctcttctgag cttcagacg 479

2048

<210> 2668
<211> 450
<212> DNA
<213> Homo sapiens

<400> 2668
ccgcaccccta gccgccgact cacacaaggc aggtgggtga ggaaatccag gtaaggctcc 60
tgacagcagc tttagaaggg tacttgctgg agtgaattcg ggcctctgat tgctatataa 120
agttgtaggc aatcaagcaa cagagaactg caagtttcca aaggcaatga agtaggatac 180
ggaagggaat tcatggaatt tccacaaaag tcttactggg gcctttcttt ggctagagct 240
ggcacagtgt gacgttcccg agttagttca gagaaatgct ttctcttttg cgaaacaaaa 300
tttccaagag taggtgaatc ctaggatttt tcaagcctgg gacagggctc agggattttc 360
gtctcagtca ccatctaaag ctttctttcc cacgggctaa agcaaagccc cataggcttc 420
tccactatga cacctcagct cggattgccc 450

<210> 2669
<211> 507
<212> DNA
<213> Homo sapiens

<400> 2669
cgctccccc tccctgctct gctctgaggt gccagccaga gccgctcagg gtccctccgtc 60
cggtttcccg tgggcctaac agcagggccc tggggccacc accgcacct ccctgcctcc 120
atctcagaaa ctgaagcctg ggagccccct gggccacctg agtctgggag acgcaagcca 180
atccccggga caggccccgg ccccttccta gtgaggggca cgctctgggtc aatcgtgggg 240
cagagaaaatt tgctttttaa cataaaacgt atcctttgtc cctagaatgg caggctacct 300
ccctgcctta ttctgtgaag atgtagttcc tttattagca gagcttactt tgaaggtaga 360
ataacaataa atatataagc agttggagag taaaatcact acagtattca agtctaaata 420
tattacaaat gccaagtttt attggaaaat tatatataaa attcttatat acatttttagt 480
aagcctccat cttagtatct aaaactt 507

<210> 2670
<211> 404
<212> DNA
<213> Homo sapiens

<400> 2670
tacaggcatg aaccaccatg cccaacctca tttacaattt ttaaaaaaaaa tcttaagatc 60
tgtatttttt atagtattata aaagtttttt tgtgatcaca aaaatacatg cttttggtag 120
aaacacaaac atacaaagat gttctataaa actgactttt tatcgtacat ttttaagatat 180
ttaaaaaatat tttctgtaat ttcatgaaga gtactaaagc cacagtcact gacattgtaa 240
acacctctgt tcattctcta acctgttagg tgggttaagct atttttaatt ctagggggct 300
caggctgaac ttgaggttgg ggaggagaat ttgcctctgc ttttagttgc aattttcaag 360
tgaggtgaaa ttaagtaaaa tttgtaagag ctttttttggc tttt 404

<210> 2671
<211> 414
<212> DNA
<213> Homo sapiens

2049

<400> 2671

gaaactcctt gttggctcaa ctgctcttca cagatgcata attttggagt ccatacacca 60
 ccctggtcac tctctttaga atacactcca gttttgtaca tttattctat tttcaactgt 120
 atgttaattt taaagtacag catgcaacat gaaaattaac atgcacacaa tgagaggagc 180
 tgtgttaggc gaaggagctt attgatgatt actttgcttt ttcaaaaatt gtgtttaatg 240
 ttggcatata ccccatcttc catagaaata aagtaggggtg ttcaggatct aatttcaa 300
 gtagactagt aatctcaaag tgtaatggga caattatatc ccttggttcag gagacaaaat 360
 tgctcccaaa ccttcttttg ttctgttttt tcatggcata ttttaagctt aaaa 414

<210> 2672

<211> 445

<212> DNA

<213> Homo sapiens

<400> 2672

cacgcaagca tggtaggact tgctgggtggg ggccgagtaa catccagctt aatctttccc 60
 ccccttcgtc gcccggtgcta tgccgggatg ggtccaggct cctgtgtgga ctcgatatat 120
 cagagcaacc caatcttgcc gggatcaacc ctaaaggagc cgggctacgg ggccagggaat 180
 tgaagtgatg ggttcaaaga ggtagagtta gccgggggtg gagttaatga ggtctcttcc 240
 ctctttgggg ctcgacggag ggaggaagct ctgcttgaag cacatggggc tggcccaccc 300
 tgtagtcaga ggtagcaagt aatgaggagt cctcctggag tgccctcagct ttagctgggt 360
 aaggtagggc gttgtgccat tgtggtcaaa taacattgca cgttctgaac tgtttcttta 420
 ctaggttaac gtccctaaaa cccgc 445

<210> 2673

<211> 366

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (119)

<223> n equals a,t,g, or c

<400> 2673

gcagactagg atggctgtat cactaacagc agctgaaact ctggcccttc aggggtacaca 60
 gggacaagag aagatgatga tgatgggacc aaaggaagag gaacagtctt gtcccaggnc 120
 ctgcacatgg acctgcacag gaagagccat gggagaagaa ggaatctctg ggagcagccc 180
 aggaagcact gagcatccag ctccagccta aggagaccca gcctttccca aagagtgaac 240
 aggtatattt acattttctg tcagttgtta cagaagatgg cccagagccc aaggacaaag 300
 gatcattgcc acaaccaccc attactgaag tggaatcaca ggtgttctca gaaaaacttg 360
 ctactg 366

<210> 2674

<211> 233

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

2050

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<400> 2674

acnccctcat aagggaacaa agntngngtt ccacnggtga gnccgtnttg nactatggat 60
ccccnggctg cagattcggc agagcagaga cagagggagc cagccgggcc ccaggtgtcc 120
tcggacgcct ccgaaatctc ctgcgtgttt gtttcttcgg agcttcaccg gaggctgact 180
ctggaaccgg cctgtctgcc tgctgcagtc ttatgcattc ttagaaacca gat 233

<210> 2675

<211> 547

<212> DNA

2051

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<400> 2675

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gatngtatnc aaccacact aaaggnaaca tangctggag ctccaccgag gtgcgnccgc 60
tctagaacta gtggatccc cgggctgcag gaattcggca cgagcttttc cattaaaaag 120
aaggaggaaa agagaaggag agcaagagaa aaaaaaatta ccttatatgt ctgtcttctt 180
atataagaaa gtgacaccat acaaagaaac aactattcag gctgggtgcta gagggttggg 240
gagccgagga atccctgggg agcagtcaca ggaattcca tccaaaagtc caacatgcag 300
tgaatatccc acaaagtta gtggtgcctc tgcagaggta gcaatgttga acgcctcgag 360
tattcccgga tgattttgat taatttcctc attccttttc tcctgagtcc agatatcccc 420
agcatagatt gcttcccaca tagtatctcc aattttaagt aatatatagt ctaatatctg 480
tttctttatt ggctaagtg ctttctctgc gtctcctcta tatcatcaat agtcctctgt 540
catcttt
```

<210> 2676

<211> 581

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

2052

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (44)

<223> n equals a,t,g, or c

<400> 2676

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ancctcacta agggaaacaaa gctggngctc caccgcggtg ncgnccgctc tagaactagt 60
ggatcccccg ggctgcagga attcggcacg agctagagag caacatgata aagctttgcc 120
tgtagaagag taactgagca tcgtgtgcag aatggatgag agagaagcag cagagagaca 180
gcaaggccat tcagcaagct cagggtggcag gtcccatctg atggaggaga atcaattcaa 240
ggagatgccc ttcttttaca gaacaccctt taacagcatc caggaggaac gagaggctgc 300
aatactgagg ctttcaaagt actcacgagg atgtccgaga atggctgtga tgccaggctt 360
ctggcagggt ccagactcca tcacaagccc agcatccctg caccagatct gacatcgctg 420
ctgttggtgcc agctgtttat gaagggcctg agtagctagc aggtttttat caggagccct 480
gctgggggct tagacaccaa aagagaagtc tcatcctctg tagttcttct tgtgaatgtc 540
cttttagaaa aacaattaga accaaccaca agcaccaaag t 581
```

<210> 2677

<211> 651

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

2053

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<400> 2677

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nanagccaac cngtcactta aagggancaa aagctggagc tccaccgcg tgcgnccgct 60
ctagaactag tggatcccc gggctgcagg aattcggcac gagggccaac gctggttcta 120
tccctgcttg ttgctttttt tttccctccg cttcttgca cggagactgc tgtccaggaa 180
gtgcgcagta gtgattctag agaggctgga agctctcctg gcgacgctgg ggccgcgaag 240
ggctcacgta atgactccta ctcttggtga gcgcaggcgt tgcggaactc accgtccac 300
aggacgtgtt tccgggggta cattaattgt ggctggacgc agtggcgcg cagttaatt 360
ctccggcggc tgcagattga cgggacgaga tggctcctggc agggctcatc aggaaactcg 420
gtcatcagct ggccgagatc agggagcgcg ctctcaagag tattctctgc aagattgagc 480
acaacttaat ctgctacgct gatctcattc aggagaggca actttttctt catttgctgg 540
aatggttcaa tttcccgctc gttccgatga aggaagaggt tctgaacctg ttaagcagat 600
tggttaagta tccccagca gtccaacatt tggttgacgt tggtcagta g 651
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<210> 2678

<211> 326

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (110)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (151)

<223> n equals a,t,g, or c

<400> 2678

```
tgaacatgca gtatatgttc agatagaaaa aggaagtgcc agaataaccc agctttaaaa 60
aggtcttcag aagaaaggaa gtctcacttt ttaaaataaa caaatgagan agtggttttg 120
angaggagca gaaaatggag caacttgatt ncagagcact cgctcccctc gtgatgttgc 180
cgccacacg cacctgcgac ctctgacaga aacgtgcagc agtgctttcc agctgggtggc 240
aggtgatgta catggtagcg agacagaggg acgccatggt ggcaggtgca gccgtggtgg 300
agagcacagg gcgacactcg gcttgg 326
```

<210> 2679

<211> 343

<212> DNA

<213> Homo sapiens

<400> 2679

2054

```
ccatcctgtc ctgccaagtg tacatctcgc agatcctggt ggcctctgcc cttggggggcg 60
tggtcgacgc cgtgggggact gtccgcgtca tccccatggt ggcctctgtg ggctctttcc 120
tgggcttcct gacggccaca ttccctggtga tctatcccga cgtgtcagag gaggccaagg 180
aggagcagaa aggcctgtct tccccgttgg ccggcgaagg cagggccggc gggaacagcg 240
aaaagcccac cgtgctgaag ctcacgcgga aggagggcct gcagggaccg gtggagacag 300
agtccgtggt ctgagccgca ctcccgttta cacacattcc agc 343
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<210> 2680

<211> 354

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (181)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (231)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (288)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

2055

<220>
<221> misc feature
<222> (318)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<400> 2680
gttttaagca tgtttattca taaaaacaag tcatngntgt attttnnatc tttaagaatg 60
cttaaaaaag ctaatcccta aaatagttag atctttgtaa atgcatatta aataataaag 120
tatgaccac attacttttt atgggtgaaa ataagacaaa aataatagtt ttagtgagga 180
nggtgctgag taaacataaa aactgatttg ctctcagctg atgtgtcctg nacacagtgg 240
gaagatttta gtacacactt agtctaactc cccattata cagatttntc actatatata 300
tnactagaag gggctaangc atattcaatg tattgagaaa cnaaagnaac caca 354

<210> 2681
<211> 156
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (71)
<223> n equals a,t,g, or c

<220>
<221> misc feature

2056

<222> (80)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (119)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (139)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (144)

<223> n equals a,t,g, or c

<400> 2681

tagtggatnn ccgggctgca ggaattcggc agagnccaaa aaagtagttt agcaactttt 60
gttggtagtc naccatcgcn agggccatag tgtagagtgt gaaaagctac cgtgaaacnc 120
agtaatccta ccctgcaang tgantgccct gccaga 156

<210> 2682

<211> 219

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

2057

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (64)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (102)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (138)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (174)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (199)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (200)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (211)

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2058

<400> 2682

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aaanaatgtc tctnagagac tgcgagaacc tttaattttt tnccggctgg ttcggatttg 120
gggtggattt tggttttntt cccctcctc caatntcccc cacccttcc ccgncctttt 180
ttttttttt ttnaaaann ggttttttat nttgaaatt 219
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<210> 2683

<211> 280

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (267)

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<220>

<221> misc feature

<222> (274)

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<220>

<221> misc feature

<222> (278)

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<220>

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<222> (279)

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<220>

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<222> (280)

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<400> 2683

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cagcctccca gttcctctgc ttccaaacta tgcaacctcc aacctgctcc agttccagac 120
tgtataacct ctgacctgca ctggttctag accacaacac cagattgtac ccagatagct 180
ggggattgga agtgaggagg tttctcacc cagagataac ccaagacaca aatgtgcaat 240
taaaagttta ttttagacca caaaaanaaa aganaaannn 280
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<210> 2684

<211> 378

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

2059

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<220>
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<220>
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<222> (330)
<223> n equals a,t,g, or c

<220>
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<220>
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<400> 2684
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attttacgct tccttatttc ttaggtgggc cacaattagt gaaaatctgt ttgcaaccac 120
tggttatcct ggcaaaatgg caagccagtt tcaaattcat catttaggac accctcagcc 180
catcctcatg gggtctgtag ccgttggatc tggactgtcc tggcatcgaa ctctccctct 240
gtgtgtaatt ggnagggaga ccacaagctg ttgttttggg tgactgaagt ataaagtgtt 300
ttcnagtacc ttagattcac aaactttgtn tttttagtag anatttggaa gaattccnat 360
agtaccacan tttggaag 378

<210> 2685
<211> 428
<212> DNA
<213> Homo sapiens

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<220>
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<222> (304)
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2060

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ttatttacaa agcttttttg ttgtacagaa agtaaaaatg ctgttacaat ctcagtgtaa 120
ctggtagcca cagacggttg actcaccaat cacagctatc cacgctacag caagantcct 180
acacaaaaac ctaacaacgc ttacaatttt tttggggtga agtccacaag cttgggtggt 240
gattaccaag agggactaca tggaagggaag gcggaatgtc acaggaacta ttctttggct 300
cttnggggtg gtgggtgtcc tggggtttgt atcacagcta cttttttttt ttttttaaac 360
agctacaaaa tccatgagca gtccaaccaa tactgaacag ttctgtttct gcaggtcac 420
tggggtct 428

<210> 2686
<211> 362
<212> DNA
<213> Homo sapiens

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<220>
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<222> (45)
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<220>
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<222> (64)
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<222> (298)
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<220>
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2061

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 <222> (361)
 <223> n equals a,t,g, or c

<220>
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 <222> (362)
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 gggntcgacc cagcggtccg cttcttttag tcaggctttc tgaacattga gatatacctga 120
 acttagagct cttcaatcct aagattttca tgaaaagcct ctcaattgaa cccaaaccag 180
 agtactctta ctgcctcttt tctaaatggt caggaaaagc attgccagtt cagtcttttc 240
 aaaatgaggg agaacaattt gcctgccttg taataacaag actcagtgtt ttttttnaa 300
 actgcatttt aaaaattgga tagtataata acaataagga gtaagccacc ttttataggn 360
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<210> 2687
 <211> 424
 <212> DNA
 <213> Homo sapiens

<220>
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 ggtgaaggcc ggcgcgctcg ccggccgagg tgggatcccg aggcctctcc agtccgccga 120
 gggcgcacca ccggcccgtc tcgcccgcgc cgccggggag gtggagcacg agcgcacgtg 180
 ttaggaccgc aaagatggtg aactatgcct gggcagggcg aacagaggaa actctggtgg 240
 aggtccgtag cggctctgac gtgcaaatcg gtcgtccgac ctgggtatag gggcgaaaga 300
 ctaatcgaac catctagtag ctggttccct ccgaagtctt cctcaggata gctggcgctc 360
 tcgcagaccc gacgcancgc cgccacgcat tttatccggt aaagcgaatg attagaggtc 420
 ttgg 424

<210> 2688
 <211> 291
 <212> DNA
 <213> Homo sapiens

<220>
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<220>
 <221> misc feature

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2062

<222> (3)
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<220>
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<220>
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 <222> (80)
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<220>
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<220>
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<220>
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<220>
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<220>
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 <222> (289)
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 tnctacctta aacaaaaagn tagaaaatat gttttaaaaa gttatggatc atttgtttaa 120
 ctttaaaaag cagaaacaaa accagaatta accccaaaac atgttgattn agtcactnct 180
 atgtcactgt ttggcataac tctccttttc atgtcacata ttcttgtcgg ttctagtgat 240
 tgatcaaagg acacctctnc actttccctt gtccctnggg caccctgtnt t 291

<210> 2689
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 <212> DNA
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<220>

2063

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<221> misc feature

<222> (245)

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<400> 2689

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gaccatgaag atgatagaat cccaaggaat agctgaattt taaaaggctt tcccccaaaa 120
aatgggcata tatatagtag taataattgc tactgtgtac atttgtttta aaaaatccta 180
gtgcttgtgc aagtgtaatg aattttgcct tatgacatga ctttgtggtg actatgcaat 240
ctgtncattg ttncaaaaag ttacacagtg ncaaaggaac at 282
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<210> 2690

<211> 504

<212> DNA

<213> Homo sapiens

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<220>

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<222> (207)

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<220>

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<222> (229)

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2064

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<220>

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<220>

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<220>

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2065

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<220>

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<220>

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2067

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<222> (468)

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<222> (472)

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2068

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 <222> (495)
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<220>
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 gccgtcttca tcccatgcgc ctccccacat ccaactacttt cttatcattt ctaaagcatc 180
 cttgagtggg acttttgtct ttctccngag aggggagctt agcgcttgng gttnttgagg 240
 atggtttaat agaggggnat gtgnntagct ggaacccaaa ctcttggtgn ntgggtgtga 300
 cccttgtnnt acacaatggt ngctctatggt ggattgggtn cacngaggnt tnnngtntna 360
 tnagntttna aattgntnat tgtgntagnn gaagttncaa aagtgttttt gaaggtaanc 420
 agtaangnng gnttanaann ggcantnttg tgacngnaga gngtgtnntt gngggggagg 480
 gnntntgnat ttttnggna taaa 504

<210> 2691
 <211> 502
 <212> DNA
 <213> Homo sapiens

<220>
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<220>
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 <222> (319)
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2069

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<222> (336)
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<222> (337)
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<220>
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<222> (370)
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<220>
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<220>
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2070

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<220>
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<220>
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<220>
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<220>
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ttgaagtga tgctgtttat cctcccccact aatctgcact cctcacatgg gatcacagcc 180
cagacaacat ggcagacaga gaggcagatg cagagctgca ctgactcagt gggaccagct 240
gggggtnggtc atttaaacag accactcctg ccaaacagcc tgcggtgggt ggaacaggaa 300
ggacttcctt ggcctcgtnc acatgggaga aaagannttt ttttttcccg gagacatgtt 360
atagttggan tanttnatta cattattttg ggttgnccan tttttttaa aaacagttan 420
cgggtttnaa aaatttanan aaaatggggg ngantngta aggttngggn catttgatta 480
tttcannagg tttaacccat gg 502

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2071

<210> 2692
<211> 502
<212> DNA
<213> Homo sapiens

<220>
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<222> (310)
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<220>
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2072

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2073

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2074

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gggcttttta ctttcagggt tttttttaat gtgattatct tcaactctctg gatatccaat 180
tttgttcctt ttaagataag agacagaagg cacatacagt tggatttggt gatgacattt 240
tgttggacaa catttcttca tgaatgtttt tnggcattgg gtgattaggn tcctacagaa 300
caatattttt canatgggna cacngtttta aaagcatgaa caacaaagtn atcnntggaa 360
atacgnannn ncaattatgg gttttgtaca tttnnagggt nccctngnng gggccatttg 420
aataatnnan gggttatatn ttggggcntg gncctngggg agncttncgg tngcggacgg 480
nggccaancc nttttcgggn tt 502
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<211> 498

<212> DNA

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2075

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<222> (376)

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2076

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 gttccttttg caatagactc tggcctaata agtggcaaga cagctttatg caacttctta 180
 tatctttctca gagtgcagtc tgggtgggaa agactgaggg acccaggatt ctcatgggtgt 240
 ttcatagggt ctgactgggt gatgtccccg tnttatgaaa ccaattgttg tgggttgcaa 300
 aaatgtgggc agnttccctt ggattcacan ggattttcaa nntgttagga ngcaagtggg 360
 tngcaacatn gaaggnncct tgggggnccc agagttnngg aagggngnga ntttcccaa 420
 ggaaantttg ggggttntnt gccnaggggg nggnatttnt ggggnnggga anaannangg 480
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2078

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atcccagatc agagtctaac tttttgcatt agctcctctg actgggnatt gaccaacttt 180
gtgaaataaa agcctgcccgt ctgctgcctc tgagactcag ttattagtagt ccattggaagg 240
gcttttaggca ggnnagctct tcagggaact cagnggagag tcggtgggna tcatggntga 300
tggcattcag tgggncagnt agcccaggca caggggtgttt aaantacaaa catttnntca 360
cccatatgng ggaggttaaa aaaagtnaat ttcgaaaaca tttttttaat ggccttaact 420
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atcagtccat gatgagaact ttttctagac cctcttctgg gctagaattt ggttttcagt 180
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gcatcatgtt tgcaactgtc ctgttgaacc aaagcaaaag tttcatgaac cagcctaggt 180
tccaggggtt ggaagaataa acacctgtnn aaatggggggg aagctgncat tggtatgttg 240
gcgtgggtgt gagtggcacg                                     260
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tagggggagc taagaggggt tncagcccaa ggtgtactta acccagcacc tagagaaacg 180
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caggaacatg gccaacgcnc gtaaccacaa ggaatgggga ccacagggag gaggttggag 180
taatgatgag cttaccacat tgatcattcc atcaaagtgg gtacatattt accaggnagg 240

2088

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gtgcccagga gagancagtt agtatgtgga ccctgttnnt ttgggggnnc ttngnggntg 360
ggggagngca cttganccan tntttgggta aggcntaatt ncaagngtng gggntttant 420
gtntntaag gntttgtntc tactnttttt nggnatacag ggtttnatng aannnnggtt 480
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aacctgaagg aggatgaacg atgaggatga aaggaagatg aatgatgnac ttatctgnag 180
ggcttatgaa cagctncaga aaaggggaact ttctnnactn cattgaatga tnccttatga 240
atgccagcta aacttcagaa ctcccagtg aagattgctt gatggattga gaggcccca 300
ggnatggggn ccccattn gn tttggggggg nttgtgtga ttttcaaatt ttnantttng 360
ggnccttttg gatttatgag gaaangtggg ganggngngc agggngnggt tnttgggggg 420
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cagctattcc tgagnagctt gggttgtaaat ctatgatttc tatttcntaa gtggtagtca 240
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ttaaggggta aaaattatgn aggttatttg tttctgggtt ggggttttcc tctaggctna 360
atnncatgat ccccaaagng gtnnccaaaa tgttngantt ttncgggtggc cagnttggaa 420
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tttnagaatg ncttttnaca ngngagtngg actgtttnan aggnaanggg gnntgttgga 420
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cccgncaaaa agttgaccg atgtgaatga aaggccagg ganttggggg aagcantngn 420
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 nagccgagtg cttgtnatgn gtaacgtgnt gttttaanga acgggtggna agagcnngga 420
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agacaagggt aatttgagaa gtaagaagat tgatatggta atgcacacac ggctacattt 240
tacttcccat attctcttgg tgtatctata gaaaacaaaa aagangcaac actatggtaa 300
gaaactaact gaagtttttt cttttccatt gcctaagact ttgttttgga cttatatagt 360
attattaatt accnccagtt aacttcaca tggnttttat tgcntngnn ncggtagttt 420
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2117

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